

## **CHAPTER 6 - GROUNDWATER MONITORING**

Current groundwater monitoring activities at WIPP are outlined in the WIPP Groundwater Monitoring Program Plan (WP 02-1). This is a QA document containing program plans for each activity performed by groundwater monitoring personnel. In addition, WIPP has detailed procedures for performing specific activities, such as pumping system installations, field parameter analyses and documentation, and QA records management. Groundwater monitoring activities are also defined in the EMP.

The objectives of the Groundwater Monitoring Program are to:

- Determine the physical and chemical characteristics of groundwater;
- Maintain surveillance of groundwater levels surrounding the WIPP facility, both before and throughout the operational lifetime of the facility;
- Document and identify effects, if any, of WIPP operations on groundwater parameters; and
- Fulfill the requirements of the RCRA Operating Permit, the EPA Compliance Certification Application (CCA) and DOE Order 5400.1.

The data obtained by the WIPP Groundwater Monitoring Program supported two major programs at WIPP: (1) the RCRA Detection Monitoring Program supporting the RCRA Part B Permit in compliance with 40 CFR Part 264 and 20.4.1 NMAC, and (2) performance assessment supporting the Compliance Certification (DOE/CAO 96-2184) in compliance with 40 CFR Part 191 and 40 CFR Part 194. Each of these programs requires a unique set of analyses and data. Particular sample needs are defined by each program.

Background data were collected from 1995 through 1997 and reported in the Waste Isolation Pilot Plant RCRA Background Groundwater Quality Baseline Report (DOE/WIPP 98-2285). The Background data were expanded in 2000 to include ten rounds of sampling instead of five. The data were published in Addendum 1 Waste Isolation Pilot Plant RCRA Background Groundwater Quality Baseline Update Report. These background data will be compared to water quality data collected throughout the operational life of the facility.

Groundwater monitoring activities during 2001 included groundwater quality sampling and groundwater level surveillance. Groundwater quality data were gathered from six wells completed in the Culebra Member of the Rustler Formation (wells WQSP-1 through WQSP-6) and one well completed in the Dewey Lake Formation (well WQSP-6A; Figure 6.1). Groundwater surface elevation data were gathered from 70 well bores, five of which were equipped with production-inflated packers to allow groundwater level surveillance of more than one producing zone through the same well bore (Figure 6.2).

## **6.1 Groundwater Quality Sampling**

The RCRA Permit Module V requires groundwater quality sampling twice a year, from March through May (Round 12 for 2001) and, again, from September through November (Round 13 for 2001). Sampling for groundwater quality was performed at seven well sites during 2001 (Figure 6.1). Field analysis for Eh (Intensity Factor: an indicator of oxidation or reduction of chemical species), specific gravity, specific conductance, acidity or alkalinity, chloride, divalent cations, and total iron were performed periodically during the sampling.

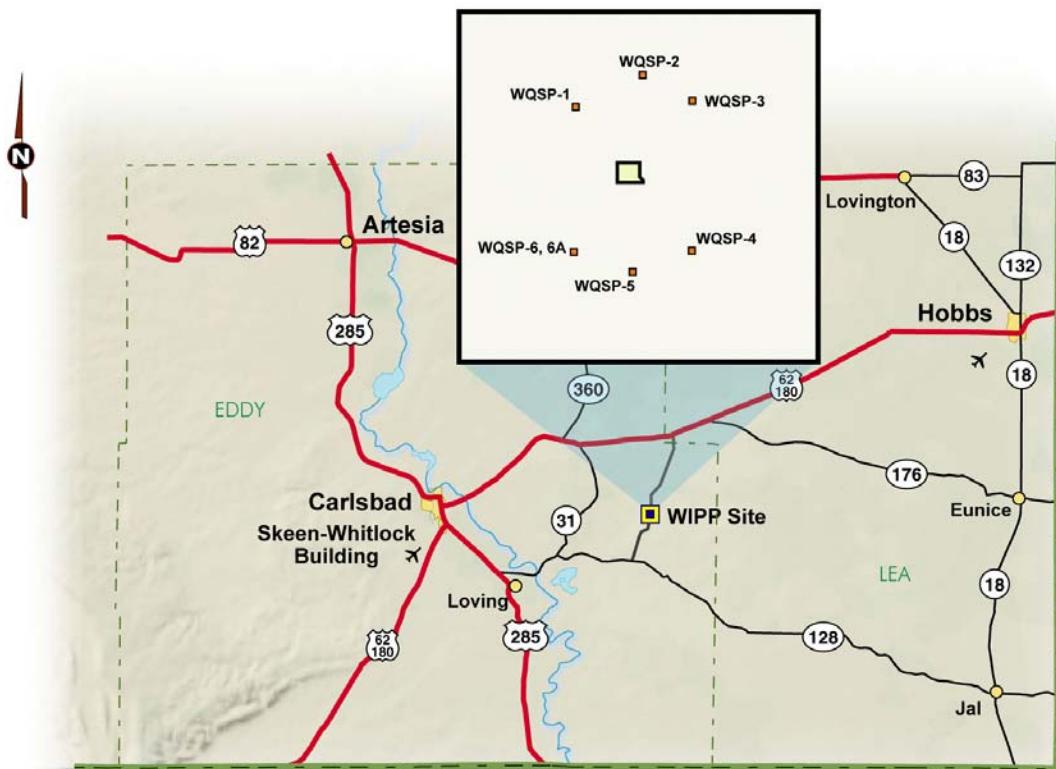


Figure 6.1 - Water Quality Sampling Program Wells

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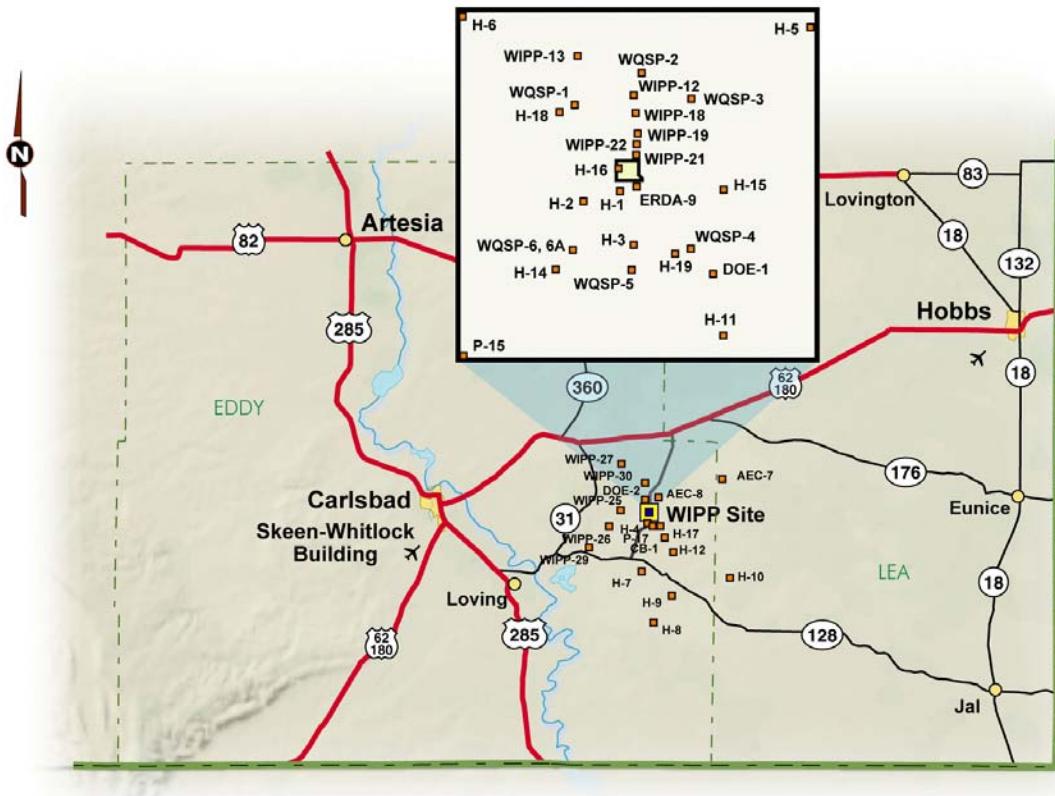


Figure 6.2 - Groundwater Level Surveillance Wells

Table 6.1 lists the analytical parameters included in the year 2001 groundwater sampling program.

During 2001, groundwater surveillance activities removed approximately 77,166 l (20,385 gal) of water from the Culebra member of the Rustler Formation and 18,571 l (4,906 gal) from the Dewey Lake Formation. The quality of the Culebra water sampled near WIPP is naturally poor and not suitable for human consumption or for agricultural purposes. Historically TDS concentrations measured in the Culebra ranged from 17,000 to over 280,000 mg/l. The groundwater of the Culebra is considered to be Class III water by EPA guidelines.

Water quality measurements performed in the Dewey Lake Formation indicate the waters are considerably better quality than the Culebra water. The TDS values were below 10,000 mg/l. The water is suitable for livestock consumption, and classified as Class II water according to EPA guidance. Saturation of the Dewey Lake Formation in the area of WIPP is discontinuous. No hydrologic connection has been established that would indicate WIPP activities would have a potential impact on the Dewey Lake Formation.

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Because of the highly variable transmissivity and TDS values within the Culebra, baseline groundwater quality was defined for each individual well. Tables 6.2 through 6.8 summarize the results of analyses for each parameter or constituent for the two sampling sessions in 2001 (rounds 12 and 13).

In these tables, either the 95<sup>th</sup> upper tolerance limit value (UTLV) or the 95<sup>th</sup> percentile value is presented depending on the type of distribution exhibited by the parameter. Both values represent the value beneath which 95 percent of the values in a population are expected to occur. The UTLVs were calculated for data that exhibited a normal or a lognormal distribution. The 95<sup>th</sup> percentile was determined for data that were considered nonparametric; having neither a normal nor a lognormal distribution. Due to the large number of nondetectable concentrations of organic compounds, the limits for organic compounds were considered nonparametric and based on the method detection limit reported by the laboratory. These values have been recomputed after baseline sampling was completed in 2000, and were used for sampling rounds 12 and 13 to evaluate potential contamination of the groundwater wells.

As stated above, TDS, measured as filterable residue, of the Culebra Member in the WIPP area ranged from 17,000 to over 280,000 mg/l. High TDS samples require dilution prior to analysis. The dilution factors have varied between sampling rounds and wells. Historically, three different contract laboratories have been employing EPA methods to perform the groundwater chemistry analyses. Due to the variability in dilution factors and sensitivity of instruments, the concentrations and method detection limits from different laboratories were also different.

The analytical results for detectable constituents are plotted as Time Trend Plots compared to the baseline established prior to 2000 (Appendix F, Figures F.1 through F.126).

In a few isolated cases, reported concentrations of some parameters, such as potassium, magnesium, and lithium, slightly exceeded the calculated 95<sup>th</sup> percentile or the 95<sup>th</sup> UTLV. Such exceedences do not indicate the presence of contamination. The 95<sup>th</sup> UTLV or percentile is a value representing where 5 percent of the concentration in the population will be greater than the UTLV or percentile. WIPP groundwater in the Culebra Dolomite Member of the Rustler Formation has very high concentrations of dissolved solids. The contract analytical laboratory has had some difficulty performing the analyses for some of the cations found in the highly concentrated brines.

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**Table 6.1- Analytical Parameters for Which Groundwater Was Analyzed**

CAS No. <sup>a</sup>	Parameter	EPA Method Number	CAS No.	Parameter	EPA Method Number
71-55-6	1,1,1-Trichloroethane	8260B	7727-37-9	Nitrate (as N)	300.0
79-34-5	1,1,2,2-Tetrachloroethane	8260B		Orthophosphate (as P)	365.2
79-00-5	1,1,2-Trichloroethane	8260B		pH	150.1
75-34-3	1,1-Dichloroethane	8260B		Specific conductance	120.1
75-35-4	1,1-Dichloroethylene	8260B		Sulfate	300.0
107-06-2	1,2-Dichloroethane	8260B		Total dissolved solids (TDS)	160.1
56-23-5	Carbon tetrachloride	8260B		Total organic carbon (TOC)	415.1
108-90-7	Chlorobenzene	8260B		Total organic halogen (TOH)	9020B
67-66-3	Chloroform	8260B		Total phenols	420.1
540-59-0	cis-1,2-Dichloroethylene	8260B		Total suspended solids (TSS)	160.2
78-93-3	Methyl ethyl ketone	8260B			
75-09-2	Methylene chloride	8260B			
127-18-4	Tetrachloroethylene	8260B	7440-36-0	Antimony	6010B
108-88-3	Toluene	8260B	7440-38-2	Arsenic	6010B
79-01-6	Trichloroethylene	8260B	7440-39-3	Barium	6010B
75-69-4	Trichlorofluoromethane	8260B	7440-41-7	Beryllium	6010B
75-01-4	Vinyl chloride	8260B	7440-42-8	Boron	6010B
1330-20-7	Xylene	8260B	7440-43-9	Cadmium	6010B
95-50-1	1,2-Dichlorobenzene	8270C	7440-70-2	Calcium	6010B
106-46-7	1,4-Dichlorobenzene	8270C	7440-47-3	Chromium	6010B
51-28-5	2,4-Dinitrophenol	8270C	7440-48-4	Cobalt	6010B
121-14-2	2,4-Dinitrotoluene	8270C	7440-50-8	Copper	6010B
95-48-7	2-Methylphenol	8270C	7439-89-6	Iron	6010B
108-39-4/	3-Methylphenol/		7439-92-1	Lead	6010B
106-44-5	4-Methylphenol	8270C			
			7439-93-2	Lithium	6010B
118-74-1	Hexachlorobenzene	8270C	7439-95-4	Magnesium	6010B
67-72-1	Hexachloroethane	8270C	7439-97-6	Mercury	7470A
98-95-3	Nitrobenzene	8270C	7440-02-0	Nickel	6010B
87-86-5	Pentachlorophenol	8270C	7440-09-7	Potassium	6010B
110-86-1	Pyridine	8270C	7782-49-2	Selenium	6010B
78-83-1	Isobutanol	8015B	7631-86-9	Silica	6010B
	Alkalinity	310.1	7440-22-4	Silver	6010B
7726-95-6	Bromide	300.0	7440-23-5	Sodium	6010B
7782-50-5	Chloride	300.0	7440-28-0	Thallium	6010B
	Density <sup>b</sup>		7440-31-5	Tin	6010B
	Fluoride	300.0	7440-62-2	Vanadium	6010B
	Iodide	345.1	7440-66-6	Zinc	6010B

<sup>a</sup> Chemical Abstract Service Registry Number

<sup>b</sup> Analysis method was ASTM (American Society for Testing and Materials) D854-92

## **6.2 Groundwater Level Surveillance**

Groundwater surface elevations in the vicinity of WIPP may be influenced by site activities, such as pumping tests for site characterization, water quality sampling, or shaft sealing. Other influences on groundwater surface elevations may be caused by natural groundwater level fluctuations and industrial influences from agriculture, mining, and resource exploration.

In October 1988, WIPP was tasked with conducting a Groundwater Level Surveillance Program. Seventy well bores were used to perform surveillance of seven water-bearing zones in the WIPP area (Figure 6.2). The two zones of primary interest were the Culebra and Magenta members of the Rustler Formation (see Figure 1.1). Fifty-eight measurements were taken in the Culebra and ten in the Magenta. Three measurements were taken in the Dewey Lake Formation. One measurement each was taken in the Bell Canyon formation, Forty-niner, Rustler/Salado contact and an unnamed lower member of the Rustler formation. In 2001, groundwater level measurements were taken monthly in at least one accessible well bore at each well site for each available formation. Redundant well bores at each well site were measured on a quarterly basis.

Five well bores (WIPP-30 Culebra/Magenta, H-01 Culebra/Magenta, H-03d Dewey Lake/Forty-niner, Cabin Baby Culebra/Bell Canyon, and WIPP-25 Culebra/Magenta) were completed at multiple depths. By using packers, these well bores may be monitored in more than one formation.

Groundwater elevation measurements in the Culebra member indicated the generalized directional flow of groundwater was north to south in the vicinity of WIPP (Figure 6.3). Regional groundwater levels taken in Culebra observation wells with four or more data points for the year showed rising trends in water levels in 43 wells and falling trends in eight wells.

Total fluctuations of more than 0.6 m (2 ft) in groundwater levels occurred in nine wells completed to the Culebra. Two wells with fluctuations of more than 0.6 m (2 ft) (WQSP-3 and WQSP-6) may have been influenced by groundwater sampling activities. One well (H-9b) experienced water-level fluctuations due to maintenance activities. Two wells (ERDA-9 and WIPP-21) may have been influenced by plant activities, each of these wells is located in close proximity to the site property protection fence. C-2737 is a newly completed well. Fluctuations in C-2737 were caused by development activities. Two wells (WIPP-25 and WIPP-30) are recovering to previous water levels established prior to maintenance activities in August and September of 2000. One well with fluctuations more than 0.6 m (2 ft) (WIPP-27) is unexplained; however, WIPP-27 is located near local potash mining institutions and may be influenced by mining activities.

Groundwater level data were transmitted on a monthly basis to the NMED, EEG, Sandia National Laboratories, the Carlsbad Field Office Technical Assistance Contractor, and technical subcontractors as requested by the CBFO. A copy of the data was placed in the operating record for inspection by authorized agencies.

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Calculated Culebra flow rates across the Land Withdrawal Area range from  $2.6 \times 10^{-5}$  feet per day (ft/d) in the northern section of the eastern third of the Land Withdrawal Area to  $1.7 \times 10^{-3}$  ft/d in the western and central sections of the WIPP site. Calculated flow rates in the southeastern section of the WIPP site was  $1.1 \times 10^{-3}$  ft/d (Figure 6.4).

The interpretation of groundwater data collected in 2001 are similar to previous years. To date there is no indication WIPP operations have had a measurable or significant impact on either the elevation or the quality of groundwater underlying WIPP.

Culebra groundwater in the vicinity of WIPP exhibits highly variable TDS concentrations. These variable TDS concentrations are reflected in a commensurate variability in groundwater density. Each year the WIPP conducts a program to measure the density of well-bore fluids in water level monitoring wells. Due to the high concentration of TDS in WIPP groundwater, density must be taken into account to accurately determine relative water levels between wells. Measured water levels are adjusted to equivalent fresh-water head values, considering fluid density differences between measuring points.

For the year 2001, the Pressure-Density Survey measured well-bore fluid density in eighteen wells. The following wells have had Pressure-Density Surveys completed.

WELL NAME	DATE	FORMATION	DENSITY
H-06b	5/16/01	Culebra	1.0371 g/cc
DOE-1	5/18/01	Culebra	1.093 g/cc
H-11b2	5/31/01	Magenta	1.070 g/cc
H-04b	6/4/01	Culebra	1.0154 g/cc
H-03b2	6/4/01	Culebra	1.0334 g/cc
H-19b0	6/5/01	Culebra	1.0620 g/cc
H-11b4	6/11/01	Culebra	1.061 g/cc
H-17	6/11/01	Culebra	1.140 g/cc
H-09b	6/13/01	Culebra	1.000 g/cc
H-14	7/9/01	Magenta	1.0294 g/cc
H-15	7/9/01	Magenta	1.0294 g/cc
H-18	7/11/01	Magenta	1.0294 g/cc
DOE-2	7/11/01	Magenta	1.0553 g/cc
WIPP-18	7/12/01	Magenta	1.0423 g/cc
H-06c	9/26/01	Magenta	1.003 g/cc
H-05b	10/8/01	Culebra	1.0981 g/cc
H-05c	10/8/01	Magenta	1.0045 g/cc
H-03b1	10/9/01	Magenta	1.0051 g/cc

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### **6.3 Well Maintenance Activities**

Maintenance activities were performed on nine wells in CY 2001. Maintenance is performed to prepare wells for future experiments, repair nonfunctioning wells, recomplete wells to monitor additional zones of interest, and plugging and abandonment of wells that were no longer useful.

In 2001, SNL recompleted six Culebra wells (DOE-2, H-11b2, H-15, H-18, WIPP-18, and H-14) as Magenta wells to support the compliance monitoring program for the CCA.

During the month of January well casings were brushed to clean scale off the side of the casing in wells DOE-2, H-11b2, H-15, H-18, WIPP-18, and P-15. P-15 well casing was discovered to have holes in the casing near the surface. As a result, P-15 has been moved to the plugging and abandonment priority list.

In March 2001, the well casing at H-14 was brushed to remove scale from the casing wall. Bridge plugs were set below the Magenta at DOE-2 (736 ft), H-11b2 (663 ft), H-14 (459 ft), H-15 (792 ft), H-18 (613 ft), and WIPP-18 (713 ft). All measurements are to the top of the bridge plug below land surface (BLS).

The well casings at H-7b1 and H-7c were brushed and circulated in an attempt to remove obstructions in the well casings. The operations were successful in H-7b1, however, H-7c remains obstructed, thus preventing groundwater level measurements.

During April 2001, Natural Gamma logs were run on wells DOE-2, H-11b2, H-15, H-18, WIPP-18, and H-14. After the gamma logs were completed each of the wells were jet perforated across the Magenta member of the Rustler formation.

Perforation depths in each of the wells are as follows:

DOE -2	702-728 ft BLS
H-11b2	622-650 ft BLS
H-15	751-780 ft BLS
H-18	575-601 ft BLS
WIPP-18	676-702 ft BLS
H-14	428-455 ft BLS

After perforation was completed one well bore volume was bailed from each well.

Plugging and abandonment activities took place at H-1 in February 2001. After cleaning and logging the well bore, 175 ft of casing were removed from the well bore. The well was then cemented from the bottom of the well to the surface and a monument was placed at the surface in the top of the well bore.

New well construction was completed at C-2737 from February 14 through March 8, 2001. Well C-2737 is located in Southeastern Eddy County Section 29, T22S, R31E, 527 ft from the east section line and 1,513 ft from the north section line. Well C-2737

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was drilled to provide hydrological monitoring of the Culebra and Magenta members of the Rustler Formation. Well C-2737 is a replacement for H-1, which was plugged and abandoned as C-2737 was being completed. Well C-2737 was drilled to a total depth of 710 ft BLS. Two screens were placed in the borehole one across the Magenta from 561 to 584 ft BLS and the second across the Culebra from 675 to 698 ft BLS. Full details on the C-2737 well are available in DOE/WIPP 01-3210, Basic Data Report for Drillhole C-2737.

#### **6.4 Shallow Water Monitoring Program**

A third program included in this year's Site Environmental Report, is the Shallow Water Monitoring Program formerly titled the Exhaust Shaft Hydraulic Assessment Program. Investigations were conducted in 1996 and 1997 and described in DOE/WIPP 97-2119 and DOE/WIPP 97-2278 establishing a monitoring network for a shallow perched water-bearing horizon located at the base of the Santa Rosa Formation at the Dewey Lake contact (Figure 6.5). Additional background data has been presented in DOE/WIPP 99-2302, 99-3120, 00-2013, 01-3177 and 02-3177.

Groundwater monitoring activities during 2001 included groundwater quality sampling and groundwater level surveillance. Data were gathered from 16 wells and piezometers (Figure 6.6) completed through the Santa Rosa into the upper few feet of the Dewey Lake Formation.

##### **6.4.1 Groundwater Quality Sampling**

One round of water-quality samples involving the sampling of fifteen wells/piezometers was collected in year 2001 from the Shallow Water Monitoring Program. During groundwater surveillance activities removed less than twenty gallons per well/piezometer from the Santa Rosa Formation at the Dewey Lake contact. The water-bearing horizon in the Santa Rosa is transient (limited in areal extent). Wells are poor producers with flow rates of less than 2.0 gpm. The quality of the shallow water system sampled near the WIPP is poor and not suitable for human consumption. TDS concentrations measured in the Santa Rosa range from 2,300 mg/l to 134,000 mg/l (Tables 6.2 through 6.8). Three locations have TDS values of less than 10,000 mg/l: C-2507, PZ-10 and C-2811; all other locations have TDS values in excess of 10,000 mg/l.

##### **6.4.2 Shallow Water Level Surveillance**

Sixteen wells were used to perform surveillance of the shallow perched water-bearing horizon in the Santa Rosa at the Dewey Lake contact. Water-level measurements were collected monthly. Fluctuations varied by less than 1.5 feet, with only PZ-12 and PZ-10 changing by more than one foot. Changes in the fluid levels appear to be in response decreased precipitation resulting in less recharge to the perched water-bearing horizon through surface runoff.

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Groundwater elevation measurements in the Santa Rosa at the Dewey Lake contact indicate that flow moves radially away from a potentiometric high located near PZ-7 adjacent to the Salt Water Evaporation Pond (Figure 6.7). A potentiometric low is located near PZ-12 between two retention ponds. A second low is PZ-8 located east of the site, which is presently a dry hole. Data from piezometer C-2811 located approximately 2,500 feet south of the site is not included in the contour plots because of a lack of sufficient data characterize the hydrology to the south. Projected work in year 2003 is intended to investigate the conditions to the south of the site.

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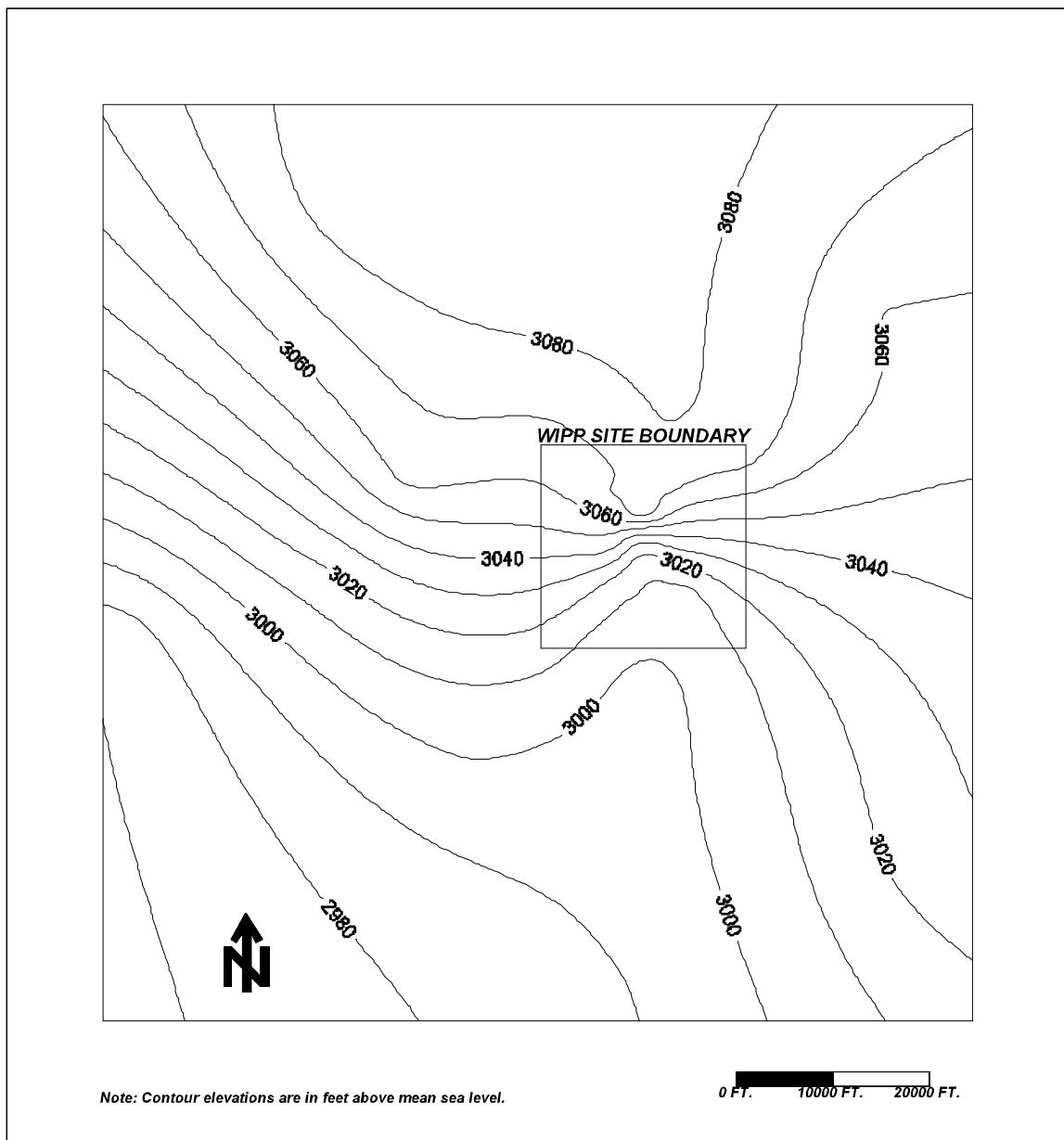


Figure 6.3 - Potentiometric Surface, Adjusted to Equivalent Freshwater Head, of the Culebra Dolomite Member of the Rustler Formation near the WIPP Site, December, 2001

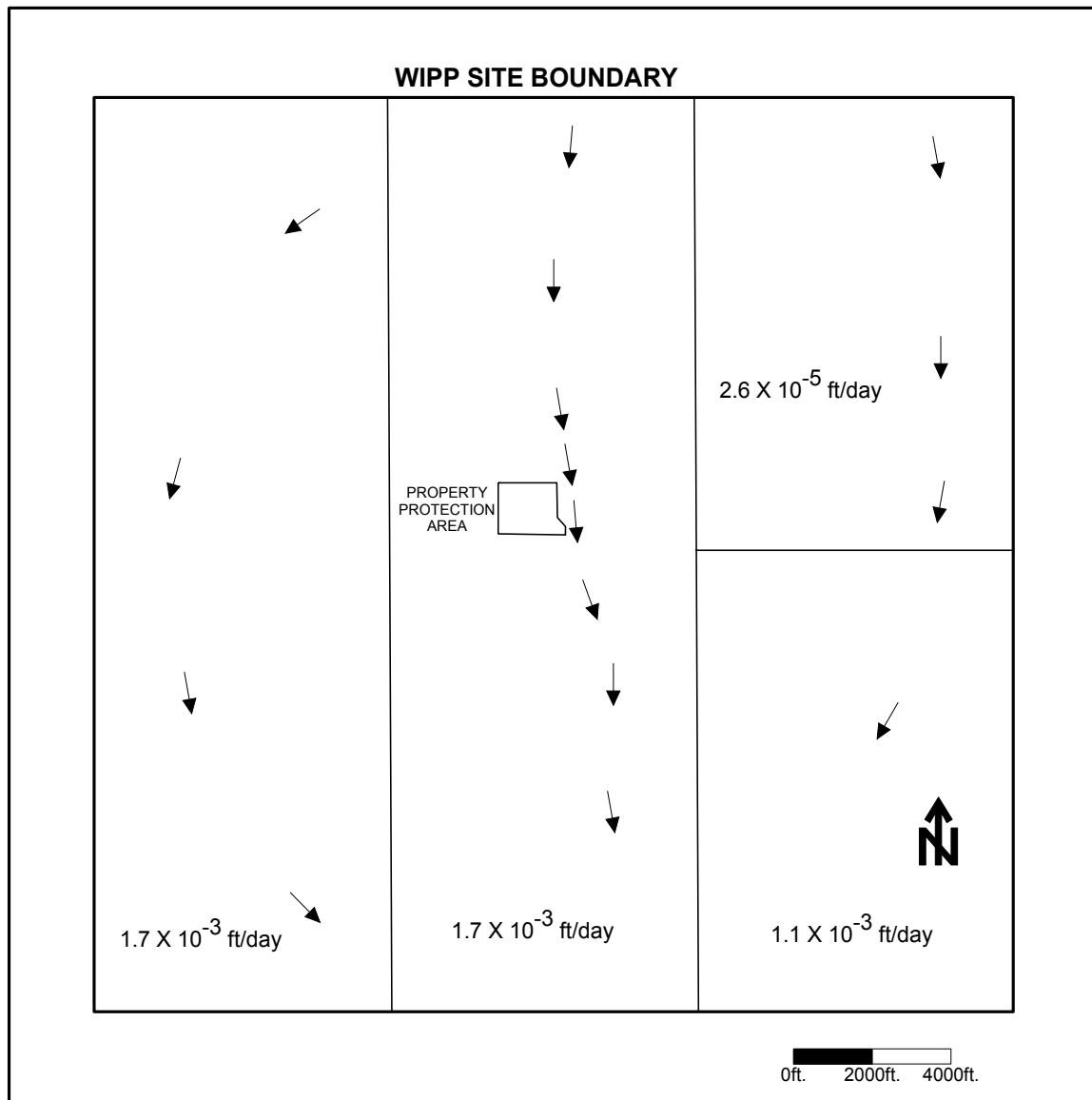


Figure 6.4 - Flow Rate and Direction of Groundwater Flowing Across the WIPP Site from the Culebra Formation, December 2001

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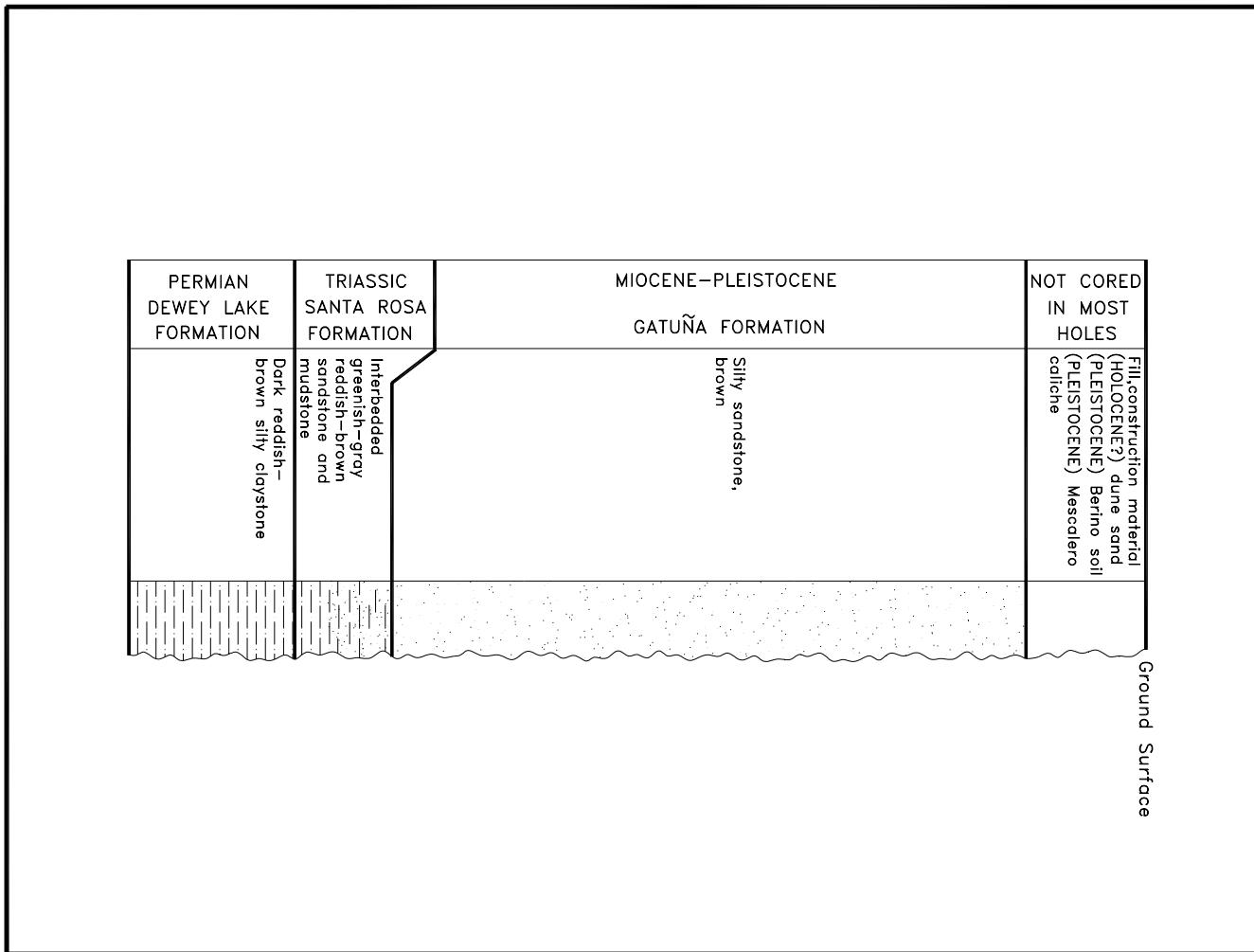


Figure 6.5 - Units Commonly Encountered During Shallow Drilling at WIPP

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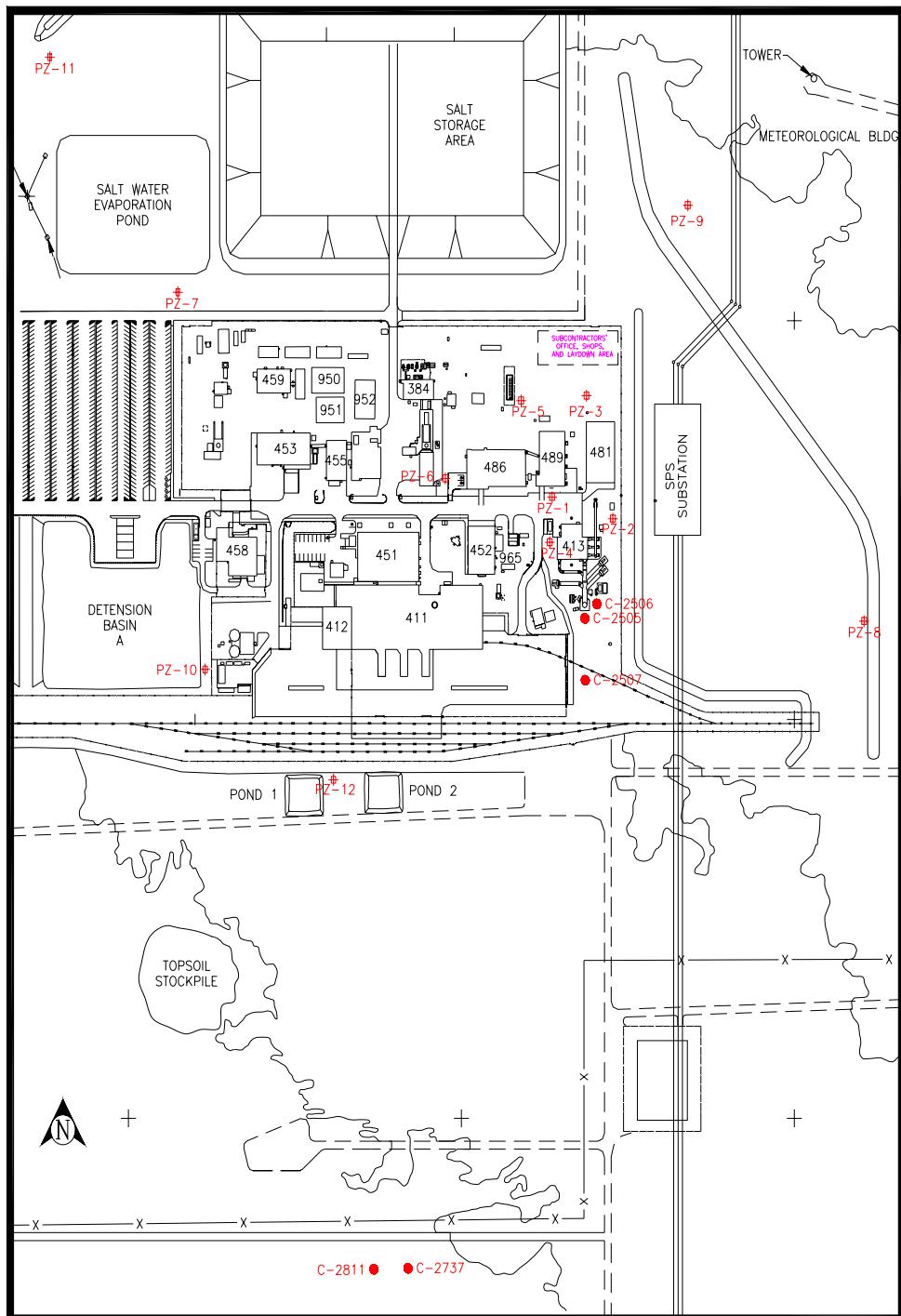


Figure 6.6 - Locations of Piezometers PZ-1 and C-2811, and Wells C-2505, C-2506, and C-2507

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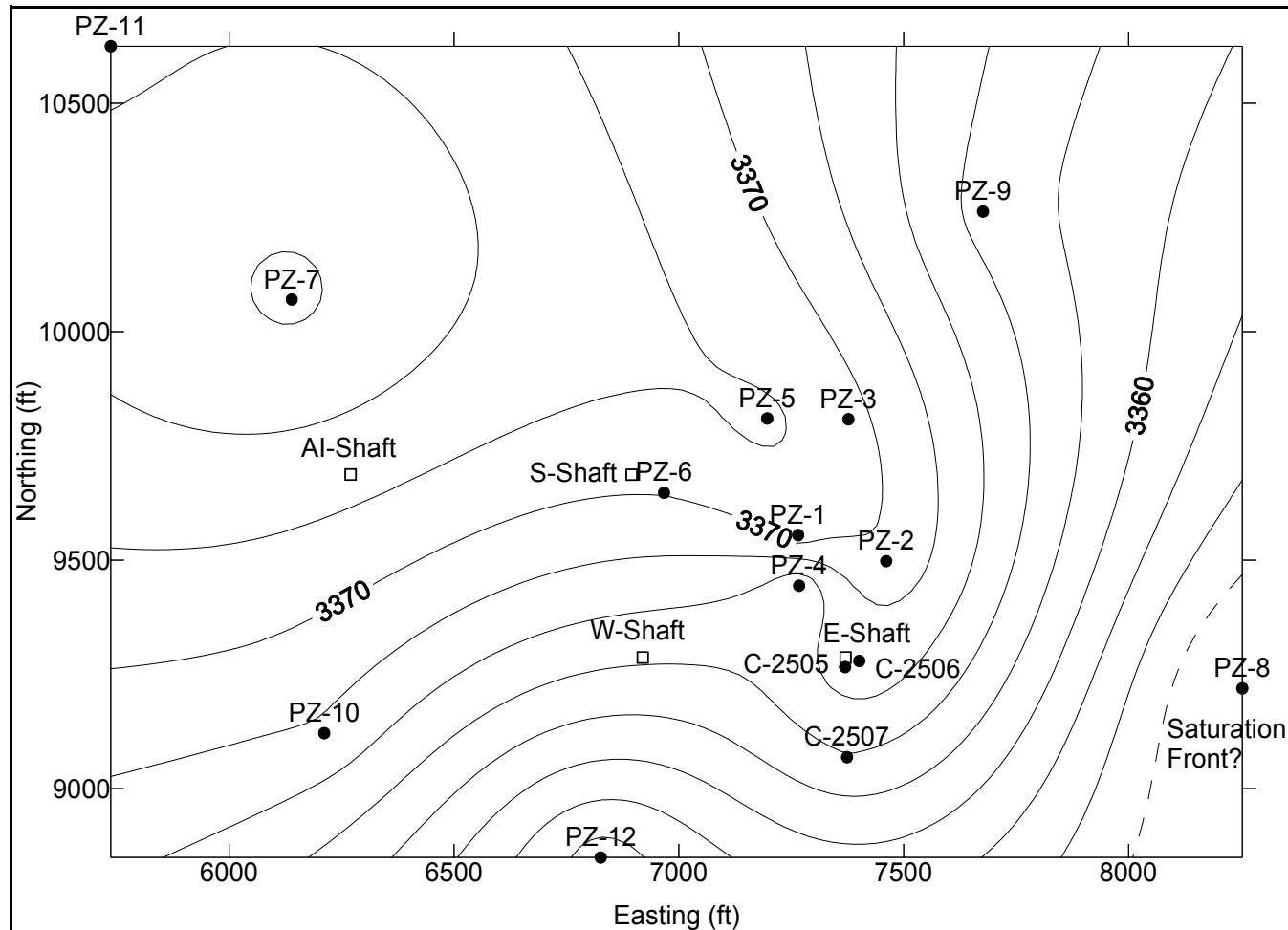


Figure 6.7 - Contour Plot of the Potentiometric Surface in the Santa Rosa Formation at the Dewey Lake Contract: December 2001

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**Table 6.2 - Analytical Results for Groundwater Sampled from Well WQSP-1**

Parameter	Concentration						Reporting Limit	95 <sup>th</sup> UTLV <sup>a</sup>	
	Round 12		Round 13		Units	Round 12	Round 13		
	Sample	Dup.	Sample	Dup.					
1,1,1-Trichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL <sup>b</sup>	
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	µg/l	1	1	<RL	
1,1,2-Trichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL	
1,1-Dichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL	
1,1-Dichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL	
1,2-Dichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL	
Carbon tetrachloride	<1	<1	<1	<1	µg/l	1	1	<RL	
Chlorobenzene	<1	<1	<1	<1	µg/l	1	1	<RL	
Chloroform	<1	<1	<1	<1	µg/l	1	1	<RL	
cis-1,2-Dichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL	
Methyl ethyl ketone	<5	<5	<5	<5	µg/l	5	5	<RL	
Methylene chloride	<5	<5	<5	<5	µg/l	5	5	<RL	
Tetrachloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL	
Toluene	<1	<1	<1	<1	µg/l	1	1	<RL	
Trichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL	
Trichlorofluoromethane	<1	<1	<1	<1	µg/l	1	1	<RL	
Vinyl chloride	<1	<1	<1	<1	µg/l	1	1	<RL	
Xylene	<1	<1	<1	<1	µg/l	1	1	<RL	
1,2-Dichlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL	
1,4-Dichlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL	
2,4-Dinitrophenol	<5	<5	<5	<5	µg/l	5	5	<RL	
2,4-Dinitrotoluene	<5	<5	<5	<5	µg/l	5	5	<RL	
2-Methylphenol	<5	<5	<5	<5	µg/l	5	5	<RL	
3-Methylphenol/ 4-Methylphenol	<5	<5	<5	<5	µg/l	5	5	<RL	
Hexachlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL	
Hexachloroethane	<5	<5	<5	<5	µg/l	5	5	<RL	
Nitrobenzene	<5	<5	<5	<5	µg/l	5	5	<RL	
Pentachlorophenol	<5	<5	<5	<5	µg/l	5	5	<RL	
Pyridine	<5	<5	<5	<5	µg/l	5	5	<RL	
Isobutanol	<2	<2	<2	<2	mg/l	2	2	<RL	
Alkalinity	51	52	50	52	mg/l	4	4	55.7	
Bromide	33	30	26.8	25.8	mg/l	1	1	51.8	
Chloride	37000	36000	35900	36100	mg/l	0.5	0.5	39105	
Density	1.05	1.051	1.042	1.047	g/ml	N/A <sup>c</sup>	N/A	1.072	
Fluoride	1.5	1.4	1.09	1.08	mg/l	0.2	0.1	4.36	
Iodide	<2.0	<2.0	<2.0	<2.0	mg/l	2	2	2	
Nitrate (as N)	<.10	<.10	<.10	<.10	mg/l	0.1	0.1	<10	
Orthophosphate (as P)	<0.04	<0.04	<0.040	0.04	mg/l	0.04	0.04	0.1	

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**Table 6.2 - Analytical Results for Groundwater Sampled from Well WQSP-1**

Parameter	Concentration						Reporting Limit		95 <sup>th</sup> UTLV <sup>a</sup>
	Round 12		Round 13		Units	Round	Round		
	Sample	Dup.	Sample	Dup.		12	13		
pH	7.1	7.1	7.31	7.33	SU <sup>d</sup>	N/A	N/A	6.89-7.65	
Specific conductance	80000	81000	83800	83100	µmhos/cm	N/A	N/A	175000	
Sulfate	4900	4800	4730	4720	mg/l	0.5	0.5	5757	
Total dissolved solids	63000	63000	68300	65700	mg/l	10	10	80700	
Total organic carbon	1.15	<1.0	<1.0	<1.0	mg/l	1	1	<5.0	
Total organic halogen	9.7	11.4	1.6	2.9	mg/l	N/A	N/A	14.6	
Total phenols	<0.10	<0.10	<0.10	<0.10	mg/l	0.1	0.1	<0.10	
Total suspended solids	<1.0	<1.0	<1.0	<1.0	mg/l	1	1	33.5	
Antimony	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	0.33	
Arsenic	<0.05	<0.05	<0.05	<0.05	mg/l	0.05	0.05	<0.1	
Barium	<0.10	<0.10	<0.10	<0.10	mg/l	0.1	0.1	<1.0	
Beryllium	<0.0025	<0.0025	<0.003	<0.003	mg/l	0.003	0.003	<0.02	
Boron	13.43	13.42	14.1	13.5	mg/l	0.005	0.05	19.3	
Cadmium	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	<0.2	
Calcium	1854	1794	1828	1/795	mg/l	0.5	0.2	2,087	
Chromium	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	0.01	<0.5	
Cobalt	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	0.11	
Copper	<0.0125	<0.0125	<0.013	<0.013	mg/l	0.0125	0.013	<1.0	
Iron	<0.05	<0.05	0.08	<0.05	mg/l	0.05	0.05	1.32	
Lead	0.0124	<0.010	0.013	0.01	mg/l	0.01	0.01	0.105	
Lithium	0.719	0.693	0.88	0.841	mg/l	0.005	0.01	0.547	
Magnesium	1255	1180	1262	1270	mg/l	0.5	0.2	1,247	
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	mg/l	0	0	<0.002	
Nickel	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	0.490	
Potassium	767	745	896	871	mg/l	0.5	0.2	799	
Selenium	<0.05	<0.05	<0.05	<0.05	mg/l	0.05	0.05	0.15	
Silica	6.39	6	4.75	4.61	mg/l	0.05	0.05	17.9	
Silver	<0.0125	<0.0125	<0.013	<0.013	mg/l	0.0125	0.013	<0.50	
Sodium	19170	17460	18450	17430	mg/l	0.5	0.2	22,090	
Thallium	<0.05	<0.05	<0.05	<0.050	mg/l	0.05	0.05	0.98	
Tin	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	0.46	
Vanadium	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	<0.1	
Zinc	<0.025	<0.025	<0.025	0.037	mg/l	0.025	0.025	<5.0	

<sup>a</sup> 95<sup>th</sup> Upper Tolerance Limit Value, equivalent to 95% Confidence Limit

<sup>b</sup> Reporting Limit

<sup>c</sup> Not Applicable

<sup>d</sup> Standard Unit

<sup>e</sup> Not reported by the laboratory

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**Table 6.3 - Analytical Results for Groundwater Sampled from Well WQSP-2**

Parameter	Concentration						Reporting Limit		95 <sup>th</sup> UTLV <sup>a</sup>	
	Round 12		Round 13		Units	Reporting Limit				
	Sample	Dup.	Sample	Dup.		Round 12	Round 13			
1,1,1-Trichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL <sup>b</sup>		
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	µg/l	1	1	<RL		
1,1,2-Trichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL		
1,1-Dichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL		
1,1-Dichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL		
1,2-Dichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL		
Carbon tetrachloride	<1	<1	<1	<1	µg/l	1	1	<RL		
Chlorobenzene	<1	<1	<1	<1	µg/l	1	1	<RL		
Chloroform	<1	<1	<1	<1	µg/l	1	1	<RL		
cis-1,2-Dichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL		
Methyl ethyl ketone	<5	<5	<5	<5	µg/l	5	5	<RL		
Methylene chloride	<5	<5	<5	<5	µg/l	5	5	<RL		
Tetrachloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL		
Toluene	<1	<1	<1	<1	µg/l	1	1	<RL		
Trichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL		
Trichlorofluoromethane	<1	<1	<1	<1	µg/l	1	1	<RL		
Vinyl chloride	<1	<1	<1	<1	µg/l	1	1	<RL		
Xylene	<1	<1	<1	<1	µg/l	1	1	<RL		
1,2-Dichlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL		
1,4-Dichlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL		
2,4-Dinitrophenol	<5	<5	<5	<5	µg/l	5	5	<RL		
2,4-Dinitrotoluene	<5	<5	<5	<5	µg/l	5	5	<RL		
2-Methylphenol	<5	<5	<5	<5	µg/l	5	5	<RL		
3-Methylphenol/ 4-Methylphenol	<5	<5	<5	<5	µg/l	5	5	<RL		
Hexachlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL		
Hexachloroethane	<5	<5	<5	<5	µg/l	5	5	<RL		
Nitrobenzene	<5	<5	<5	<5	µg/l	5	5	<RL		
Pentachlorophenol	<5	<5	<5	<5	µg/l	5	5	<RL		
Pyridine	<5	<5	<5	<5	µg/l	5	5	<RL		
Isobutanol	<2	<2	<2	<2	mg/l	2	2	<RL		
Alkalinity	28	50	46	48	mg/l	4	4	70.3		
Bromide	42	38	55.8	60.8	mg/l	1	0.2	63.7		
Chloride	35000	36000	34900	34800	mg/l	0.5	2	39670		
Density	1.0479	1.0449	1.0496	1.0364	g/ml	N/A <sup>d</sup>	N/A	1.06		
Fluoride	1.7	1.7	1.066	1.022	mg/l	0.2	0.1	20		
Iodide	<2.0	<2.0	<2.0	<2.0	mg/l	2	2	2		
Nitrate (as N)	<0.1	<0.1	<0.1	<0.1	mg/l	0.1	0.1	<10		
Orthophosphate (as P)	<0.04	<0.04	<0.040	<0.04	mg/l	0.04	0.04	0.33		

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**Table 6.3 - Analytical Results for Groundwater Sampled from Well WQSP-2**

Parameter	Concentration						Reporting Limit		95 <sup>th</sup> UTLV <sup>a</sup>	
	Round 12		Round 13		Units	Round 12	Round 13			
	Sample	Dup.	Sample	Dup.						
pH	7.2	7.2	7.2	7.2	SU <sup>e</sup>	N/A	N/A	7.00-7.60		
Specific conductance	79000	80000	85200	85000	µmhos/cm	N/A	N/A	124000		
Sulfate	5200	5600	5160	5060	mg/l	0.5	2	6590		
Total dissolved solids	62000	61000	62800	62800	mg/l	10	10	80500		
Total organic carbon	<1.0	<1.0	2.91	<1.0	mg/l	1	1	7.97		
Total organic halogen	6.5	2.7	2	3	mg/l	0.005	0.005	63.8		
Total phenols	<0.10	<0.10	<0.10	<0.10	mg/l	0.1	0.1	0.16		
Total suspended solids	<1.0	<1.0	<1.0	<1.0	mg/l	1	1	43		
Antimony	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	<0.50		
Arsenic	<0.05	<0.05	<0.05	<0.05	mg/l	0.05	0.05	<0.1		
Barium	<0.10	<0.10	<0.10	<0.10	mg/l	0.1	0.1	<1.0		
Beryllium	<0.0025	<0.0025	<0.0025	<0.0025	mg/l	0.003	0.003	<1.0		
Boron	17.21	16.65	16.3	16	mg/l	0.005	0.05	19.4		
Cadmium	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	<0.5		
Calcium	1651	1715	1689	1676	mg/l	0.5	0.2	1,827		
Chromium	0.01	0.01	0.01	0.01	mg/l	0.01	0.01	<0.5		
Cobalt	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	0.11		
Copper	<0.0125	<0.0125	<0.0125	<0.0125	mg/l	0.0125	0.0125	<1.0		
Iron	<0.50	<0.50	<0.05	<0.05	mg/l	0.5	0.05	1.32		
Lead	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	0.01	0.163		
Lithium	0.727	0.681	0.92	0.913	mg/l	0.005	0.01	0.493		
Magnesium	1199	1188	1175	1193	mg/l	0.5	0.2	1,310		
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	mg/l	0	0	<0.002		
Nickel	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	0.490		
Potassium	706	768	841	856	mg/l	0.5	0.2	845		
Selenium	<0.05	<0.05	<0.05	<0.05	mg/l	0.05	0.05	0.150		
Silica	5.67	5.47	4.72	4.41	mg/l	0.05	0.5	24.0		
Silver	<0.0125	<0.0125	<0.0125	<0.0125	mg/l	0.0125	0.0125	<0.50		
Sodium	19790	21340	20910	21060	mg/l	0.5	0.2	21,900		
Thallium	<0.05	<0.05	<0.05	<0.05	mg/l	0.05	0.05	0.98		
Tin	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	0.46		
Vanadium	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	<0.1		
Zinc	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	<5.0		

<sup>a</sup> 95<sup>th</sup> Upper Tolerance Limit Value, equivalent to 95% Confidence Limit

<sup>b</sup> Reporting Limit

<sup>c</sup> Not reported by the laboratory

<sup>d</sup> Not Applicable

<sup>e</sup> Standard Unit

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**Table 6.4 - Analytical Results for Groundwater Sampled from Well WQSP-3**

Parameter	Concentration						Reporting Limit	95 <sup>th</sup> UTLV <sup>a</sup>		
	Round 12		Round 13		Units					
	Sample	Dup.	Sample	Dup.						
1,1,1-Trichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL <sup>b</sup>		
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	µg/l	1	1	<RL		
1,1,2-Trichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL		
1,1-Dichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL		
1,1-Dichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL		
1,2-Dichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL		
Carbon tetrachloride	<1	<1	<1	<1	µg/l	1	1	<RL		
Chlorobenzene	<1	<1	<1	<1	µg/l	1	1	<RL		
Chloroform	<1	<1	<1	<1	µg/l	1	1	<RL		
cis-1,2-Dichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL		
Methyl ethyl ketone	<5	<5	<5	<5	µg/l	5	5	<RL		
Methylene chloride	<5	<5	<5	<5	µg/l	5	5	<RL		
Tetrachloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL		
Toluene	<1	<1	<1	<1	µg/l	1	1	<RL		
Trichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL		
Trichlorofluoromethane	<1	<1	<1	<1	µg/l	1	1	<RL		
Vinyl chloride	<1	<1	<1	<1	µg/l	1	1	<RL		
Xylene	<1	<1	<1	<1	µg/l	1	1	<RL		
1,2-Dichlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL		
1,4-Dichlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL		
2,4-Dinitrophenol	<5	<5	<5	<5	µg/l	5	5	<RL		
2,4-Dinitrotoluene	<5	<5	<5	<5	µg/l	5	5	<RL		
2-Methylphenol	<5	<5	<5	<5	µg/l	5	5	<RL		
3-Methylphenol/ 4-Methylphenol	<5	<5	<5	<5	µg/l	5	5	<RL		
Hexachlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL		
Hexachloroethane	<5	<5	<5	<5	µg/l	5	5	<RL		
Nitrobenzene	<5	<5	<5	<5	µg/l	5	5	<RL		
Pentachlorophenol	<5	<5	<5	<5	µg/l	5	5	<RL		
Pyridine	<5	<5	<5	<5	µg/l	5	5	<RL		
Isobutanol	<2	<2	<2	<2	mg/l	2	2	<RL		
Alkalinity	34	32	32	34	mg/l	4	4	54.5		
Bromide	80	78	127	122	mg/l	1	0.2	137		
Chloride	130000	130000	131000	129000	mg/l	0.5	2	149100		
Density	1.131	1.132	1.152	1.146	g/ml	N/A <sup>d</sup>	N/A	1.17		
Fluoride	0.71	0.69	0.938	0.92	mg/l	0.1	0.1	<10.0		
Iodide	<2.0	<2.0	<2.0	<2.0	mg/l	2	2	2.18		
Nitrate (as N)	<0.10	<0.10	<0.10	<0.10	mg/l	0.1	0.1	12		
Orthophosphate (as P)	<0.04	<0.04	0.118	0.0923	mg/l	0.04	0.04	0.41		

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**Table 6.4 - Analytical Results for Groundwater Sampled from Well WQSP-3**

Parameter	Concentration						Reporting Limit		95 <sup>th</sup> UTLV <sup>a</sup>
	Round 12		Round 13		Units	Round 12	Round 13		
Parameter	Sample	Dup.	Sample	Dup.					
pH	6.6	6.6	6.77	6.79	SU <sup>e</sup>	N/A	N/A		6.60-7.20
Specific conductance	194000	205000	195000	197000	µmhos/cm	N/A	N/A		517000
Sulfate	7200	7200	7460	7190	mg/l	0.5	2		8015
Total dissolved solids	204000	210000	234000	215000	mg/l	10	10		261000
Total organic carbon	<1.0	<1.0	<1.0	<1.0	mg/l	1	1		<5.0
Total organic halogen	10	5.3	5.8	6.2	mg/l	NR	0.005		55
Total phenols	<0.10	<0.10	0.153	0.162	mg/l	0.1	0.1		0.26
Total suspended solids	<1.0	<1.0	82	92	mg/l	1	1		107
Antimony	<0.013	<0.013	<0.125	<0.125	mg/l	0.013	0.125		<1.0
Arsenic	<0.05	<0.05	<0.05	<0.05	mg/l	0.05	0.05		0.207
Barium	<0.02	<0.02	<0.50	<0.50	mg/l	0.02	0.5		<1.0
Beryllium	<0.01	<0.01	<0.0125	<0.0125	mg/l	0.01	0.0125		<0.1
Boron	44	51.4	78.8	59.5	mg/l	0.05	0.05		55.9
Cadmium	<0.01	<0.01	<0.05	<0.05	mg/l	0.01	0.05		<0.5
Calcium	1310	1300	1537	1430	mg/l	0.5	0.2		1,680
Chromium	<0.025	<0.025	<0.050	0.05	mg/l	0.025	0.05		<2.0
Cobalt	<0.013	<0.013	<0.125	<0.125	mg/l	0.013	0.125		<5.0
Copper	<0.050	<0.050	<0.0625	<0.0625	mg/l	0.05	0.0625		<1.0
Iron	<0.50	<0.50	<0.25	<0.25	mg/l	0.5	0.25		<1.0
Lead	<0.02	<0.02	<0.10	<0.10	mg/l	0.02	0.1		0.80
Lithium	0.527	0.492	1.28	1.28	mg/l	0.01	0.01		2.76
Magnesium	2120	2040	2455	2312	mg/l	0.5	0.2		2,625
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	mg/l	0	0		<0.002
Nickel	<0.025	<0.025	<0.05	<0.05	mg/l	0.025	0.05		<5.00
Potassium	2180	2190	3035	2862	mg/l	.50	0.2		3,438
Selenium	0.033	0.041	<0.250	<0.250	mg/l	0.013	0.25		<2.00
Silica	1.84	1.82	2	1.62	mg/l	0.5	0.5		7.20
Silver	<0.013	<0.013	<0.0625	<0.0625	mg/l	0.013	0.0625		0.31
Sodium	68300	71100	81600	74400	mg/l	0.5	0.2		140,400
Thallium	<0.013	<0.010	<0.100	<0.100	mg/l	0.013	0.1		5.800
Tin	<0.025	<0.025	<0.125	<0.125	mg/l	0.025	0.125		<5.00
Vanadium	<0.025	<0.025	<0.125	<0.125	mg/l	0.025	0.125		<5.00
Zinc	<0.050	<0.050	<0.125	<0.125	mg/l	0.05	0.125		2.70

<sup>a</sup> 95<sup>th</sup> Upper Tolerance Limit Value, equivalent to 95% Confidence Limit

<sup>b</sup> Reporting Limit

<sup>c</sup> Not reported by the laboratory

<sup>d</sup> Not Applicable

<sup>e</sup> Standard Unit

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**Table 6.5 - Analytical Results for Groundwater Sampled from Well WQSP-4**

Parameter	Concentration						Reporting Limit		95 <sup>th</sup> UTLV <sup>a</sup>
	Round 12		Round 13		Units	Round	Round		
	Sample	Dup.	Sample	Dup.		12	13		
1,1,1-Trichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL <sup>b</sup>	
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	µg/l	1	1	<RL	
1,1,2-Trichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL	
1,1-Dichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL	
1,1-Dichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL	
1,2-Dichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL	
Carbon tetrachloride	<1	<1	<1	<1	µg/l	1	1	<RL	
Chlorobenzene	<1	<1	<1	<1	µg/l	1	1	<RL	
Chloroform	<1	<1	<1	<1	µg/l	1	1	<RL	
cis-1,2-Dichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL	
Methyl ethyl ketone	<5	<5	<5	<5	µg/l	5	5	<RL	
Methylene chloride	<5	<5	<5	<5	µg/l	5	5	<RL	
Tetrachloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL	
Toluene	<1	<1	<1	<1	µg/l	1	1	<RL	
Trichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL	
Trichlorofluoromethane	<1	<1	<1	<1	µg/l	1	1	<RL	
Vinyl chloride	<1	<1	<1	<1	µg/l	1	1	<RL	
Xylene	<1	<1	<1	<1	µg/l	1	1	<RL	
1,2-Dichlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL	
1,4-Dichlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL	
2,4-Dinitrophenol	<5	<5	<5	<5	µg/l	5	5	<RL	
2,4-Dinitrotoluene	<5	<5	<5	<5	µg/l	5	5	<RL	
2-Methylphenol	<5	<5	<5	<5	µg/l	5	5	<RL	
3-Methylphenol/ 4-Methylphenol	<5	<5	<5	<5	µg/l	5	5	<RL	
Hexachlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL	
Hexachloroethane	<5	<5	<5	<5	µg/l	5	5	<RL	
Nitrobenzene	<5	<5	<5	<5	µg/l	5	5	<RL	
Pentachlorophenol	<5	<5	<5	<5	µg/l	5	5	<RL	
Pyridine	<5	<5	<5	<5	µg/l	5	5	<RL	
Isobutanol	<2	<2	<2	<2	mg/l	2	2	<RL	
Alkalinity	40	38	36	34	mg/l	4	4	47.1	
Bromide	53.2	54.2	82	80	mg/l	0.1	0.2	<200	
Chloride	54900	52100	55300	55000	mg/l	0.5	2	63960	
Density	1.074	1.075	1.0764	1.0777	g/ml	N/A <sup>c</sup>	N/A	1.1	
Fluoride	1.26	1.3	1.64	1.62	mg/l	0.1	0.1	2.73	
Iodide	<2.0	<2.0	<2.0	<2.0	mg/l	2	2	<2.0	
Nitrate (as N)	<0.10	<0.10	<0.10	<0.10	mg/l	0.1	0.1	<10	
Orthophosphate (as P)	<0.04	<0.04	<0.04	<0.04	mg/l	0.04	0.04	0.54	

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**Table 6.5 - Analytical Results for Groundwater Sampled from Well WQSP-4**

Parameter	Concentration						Reporting Limit		
	Round 12		Round 13		Units	Round 12	Round 13	95 <sup>th</sup> UTLV <sup>a</sup>	
	Sample	Dup.	Sample	Dup.					
pH	7.3	7.31	7.1	7.1	SU <sup>d</sup>	N/A	N/A	6.80-7.61	
Specific conductance	116000	124000	116000	121000	µmhos/cm	N/A	N/A	319800	
Sulfate	6470	6380	6300	6130	mg/l	0.5	2	7927	
Total dissolved solids	108000	109000	102000	104000	mg/l	10	10	123500	
Total organic carbon	1.1	1.22	<1.0	<1.0	mg/l	1	1	<5.0	
Total organic halogen	10	10	4	7.2	mg/l	NR <sup>e</sup>	NR	17	
Total phenols	<0.10	<0.10	<0.10	<0.10	mg/l	0.1	0.1	0.27	
Total suspended solids	<1.0	<1.0	<1.0	<1.0	mg/l	1	1	57	
Antimony	<0.013	<0.013	<0.250	<0.250	mg/l	0.013	0.25	0.8	
Arsenic	<0.05	<0.05	<0.10	<0.10	mg/l	0.05	0.1	<0.50	
Barium	<0.02	<0.02	0.106	0.106	mg/l	0.02	0.02	<1.0	
Beryllium	<0.010	<0.010	<0.025	<0.025	mg/l	0.01	0.01	0.25	
Boron	34.7	34.7	39.3	36	mg/l	0.05	0.5	36.8	
Cadmium	<0.010	<0.010	<0.050	<0.050	mg/l	0.01	0.05	<0.50	
Calcium	1520	1650	1470	1505	mg/l	0.5	0.2	1,834	
Chromium	<0.025	<0.025	0.011	0.012	mg/l	0.025	0.025	<2.0	
Cobalt	<0.013	<0.013	<0.250	<0.250	mg/l	0.013	0.25	<0.50	
Copper	<0.050	<0.050	<0.125	<0.125	mg/l	0.05	0.125	<0.50	
Iron	0.056	<0.50	<0.50	<0.50	mg/l	0.5	0.5	<4.0	
Lead	<0.02	<0.02	<0.10	<0.10	mg/l	0.02	0.02	0.525	
Lithium	0.381	0.424	0.829	0.849	mg/l	0.01	0.01	1.380	
Magnesium	1050	1060	1093	1134	mg/l	0.5	0.2	1,472	
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	mg/l	0	0	<0.002	
Nickel	<0.025	<0.025	<0.250	<0.250	mg/l	0.025	0.25	<5.00	
Potassium	1020	1090	1221	1245	mg/l	0.5	0.2	1,648	
Selenium	0.033	0.041	<0.500	<0.500	mg/l	0.013	0.5	2.009	
Silica	2.96	3.28	3.58	3.51	mg/l	0.5	0.5	11.40	
Silver	<0.013	<0.013	<0.125	<0.125	mg/l	0.013	0.125	0.519	
Sodium	35000	34200	34100	33170	mg/l	0.5	0.2	38,790	
Thallium	<0.013	<0.010	<0.500	<0.500	mg/l	0.01	0.5	1.00	
Tin	<0.025	<0.025	<0.250	<0.250	mg/l	0.025	0.25	5.00	
Vanadium	<0.025	<0.025	<0.250	<0.250	mg/l	0.025	0.25	<5.00	
Zinc	<0.050	<0.050	<0.250	<0.250	mg/l	0.05	0.25	<5.00	

<sup>a</sup> 95<sup>th</sup> Upper Tolerance Limit Value, equivalent to 95% Confidence Limit

<sup>b</sup> Reporting Limit

<sup>c</sup> Not Applicable

<sup>d</sup> Standard Unit

<sup>e</sup> Not reported by the laboratory

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**Table 6.6 - Analytical Results for Groundwater Sampled from Well WQSP-5**

Parameter	Concentration						Reporting Limit	95 <sup>th</sup> UTLV <sup>a</sup>	
	Round 12		Round 13		Units	Round 12	Round 13		
	Sample	Dup.	Sample	Dup.					
1,1,1-Trichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL <sup>b</sup>	
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	µg/l	1	1	<RL	
1,1,2-Trichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL	
1,1-Dichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL	
1,1-Dichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL	
1,2-Dichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL	
Carbon tetrachloride	<1	<1	<1	<1	µg/l	1	1	<RL	
Chlorobenzene	<1	<1	<1	<1	µg/l	1	1	<RL	
Chloroform	<1	<1	<1	<1	µg/l	1	1	<RL	
cis-1,2-Dichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL	
Methyl ethyl ketone	<5	<5	<5	<5	µg/l	5	5	<RL	
Methylene chloride	<5	<5	<5	<5	µg/l	5	5	<RL	
Tetrachloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL	
Toluene	<1	<1	<1	<1	µg/l	1	1	<RL	
Trichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL	
Trichlorofluoromethane	<1	<1	<1	<1	µg/l	1	1	<RL	
Vinyl chloride	<1	<1	<1	<1	µg/l	1	1	<RL	
Xylene	<1	<1	<1	<1	µg/l	1	1	<RL	
1,2-Dichlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL	
1,4-Dichlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL	
2,4-Dinitrophenol	<5	<5	<5	<5	µg/l	5	5	<RL	
2,4-Dinitrotoluene	<5	<5	<5	<5	µg/l	5	5	<RL	
2-Methylphenol	<5	<5	<5	<5	µg/l	5	5	<RL	
3-Methylphenol/ 4-Methylphenol	<5	<5	<5	<5	µg/l	5	5	<RL	
Hexachlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL	
Hexachloroethane	<5	<5	<5	<5	µg/l	5	5	<RL	
Nitrobenzene	<5	<5	<5	<5	µg/l	5	5	<RL	
Pentachlorophenol	<5	<5	<5	<5	µg/l	5	5	<RL	
Pyridine	<5	<5	<5	<5	µg/l	5	5	<RL	
Isobutanol	<2	<2	<2	<2	mg/l	2	2	<RL	
Alkalinity	46	46	46	44	mg/l	4	4	56	
Bromide	27.8	25.7	21.8	18.4	mg/l	1	0.2	59.4	
Chloride	16100	15700	15600	14800	mg/l	0.5	2	18100	
Density	1.027	1.023	1.0277	1.021	g/ml	N/A <sup>d</sup>	N/A	1.04	
Fluoride	2.21	2	2.05	2.13	mg/l	0.1	0.1	3	
Iodide	<2.0	<2.0	<2.0	<2.0	mg/l	2	2	<2.0	
Nitrate (as N)	<0.1	<0.1	<0.10	<0.10	mg/l	0.1	0.1	<10	
Orthophosphate (as P)	<0.04	<0.04	<0.04	<0.04	mg/l	0.04	0.04	<5.0	

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**Table 6.6 - Analytical Results for Groundwater Sampled from Well WQSP-5**

Parameter	Concentration						Reporting Limit		95 <sup>th</sup> UTLV <sup>a</sup>	
	Round 12		Round 13		Units					
	Sample	Dup.	Sample	Dup.	Round 12	Round 13	Round 12			
pH	7.58	7.57	7.6	7.6	SU <sup>e</sup>	N/A	N/A	7.40-7.90		
Specific conductance	44200	43800	35400	36600	µmhos/cm	N/A	N/A	67700		
Sulfate	4890	4800	4690	4470	mg/l	0.5	2	6129		
Total dissolved solids	32200	31300	31000	30800	mg/l	10	10	43950		
Total organic carbon	1.97	<1.0	<1.0	<1.0	mg/l	1	1	<5.0		
Total organic halogen	8.7	5.3	4.26	2.19	mg/l	0.005	0.005	8.37		
Total phenols	<0.10	<0.10	<0.10	<0.10	mg/l	0.1	0.1	<0.10		
Total suspended solids	<1.0	<1.0	<1.0	<1.0	mg/l	1	1	<10.0		
Antimony	<0.013	<0.013	<0.125	<0.125	mg/l	0.013	0.125	0.073		
Arsenic	<0.05	<0.05	<0.05	<0.05	mg/l	0.05	0.05	<0.50		
Barium	<0.02	<0.02	<0.50	<0.50	mg/l	0.02	0.02	<1.0		
Beryllium	<0.01	<0.01	<0.0125	<0.0125	mg/l	0.01	0.01	0.02		
Boron	29	31.8	37.1	36.3	mg/l	0.05	0.05	40		
Cadmium	<0.010	<0.010	<0.025	<0.025	mg/l	0.01	0.01	<0.050		
Calcium	1011	1029	1090	1080	mg/l	5	0.2	1,303		
Chromium	<0.025	<0.025	<0.050	<0.050	mg/l	0.025	0.025	<0.50		
Cobalt	<0.013	<0.013	<0.125	<0.125	mg/l	0.013	0.125	<0.50		
Copper	<0.05	<0.05	<0.0625	<0.0625	mg/l	0.05	0.05	<1.0		
Iron	0.0684	0.0671	<0.250	0.49	mg/l	0.5	0.5	0.795		
Lead	<0.02	<0.02	<0.05	<0.05	mg/l	0.02	0.05	<0.05		
Lithium	0.376	0.368	0.603	0.602	mg/l	0.01	0.01	0.74		
Magnesium	425	437	545	545	mg/l	5	0.2	547.0		
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	mg/l	0	0	<0.002		
Nickel	<0.025	<0.025	<0.125	<0.125	mg/l	0.025	0.125	<0.10		
Potassium	474	505	452	454	mg/l	5	0.2	622.0		
Selenium	0.033	0.041	<0.250	<0.250	mg/l	0.013	0.25	<0.10		
Silica	4.23	4.11	4.26	4.36	mg/l	0.5	0.5	16.3		
Silver	<0.013	<0.013	<0.0625	<0.0625	mg/l	0.013	0.0625	<0.50		
Sodium	9756	9712	10600	10200	mg/l	5	0.2	11,190		
Thallium	<0.013	<0.013	<0.250	<0.250	mg/l	0.01	0.25	0.209		
Tin	<0.025	<0.025	<0.125	<0.125	mg/l	0.025	0.125	<0.10		
Vanadium	<0.025	<0.025	<0.125	<0.125	mg/l	0.025	0.125	2.70		
Zinc	<0.050	<0.050	<0.125	<0.125	mg/l	0.05	0.15	<5.00		

<sup>a</sup> 95<sup>th</sup> Upper Tolerance Limit Value, equivalent to 95% Confidence Limit

<sup>b</sup> Reporting Limit

<sup>c</sup> Not reported by the laboratory

<sup>d</sup> Not Applicable

<sup>e</sup> Standard Unit

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**Table 6.7 - Analytical Results for Groundwater Sampled from Well WQSP-6**

Parameter	Concentration						95 <sup>th</sup> UTLV <sup>a</sup>	
	Round 12		Round 13		Units	Reporting		
	Sample	Dup.	Sample	Dup.		Round 12	Round 13	
1,1,1-Trichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL <sup>b</sup>
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	µg/l	1	1	<RL
1,1,2-Trichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL
1,1-Dichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL
1,1-Dichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL
1,2-Dichloroethane	<1	<1	<1	<1	µg/l	1	1	<RL
Carbon tetrachloride	<1	<1	<1	<1	µg/l	1	1	<RL
Chlorobenzene	<1	<1	<1	<1	µg/l	1	1	<RL
Chloroform	<1	<1	<1	<1	µg/l	1	1	<RL
cis-1,2-Dichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL
Methyl ethyl ketone	<5	<5	<5	<5	µg/l	5	5	<RL
Methylene chloride	<5	<5	<5	<5	µg/l	5	5	<RL
Tetrachloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL
Toluene	<1	<1	<1	<1	µg/l	1	1	<RL
Trichloroethylene	<1	<1	<1	<1	µg/l	1	1	<RL
Trichlorofluoromethane	<1	<1	<1	<1	µg/l	1	1	<RL
Vinyl chloride	<1	<1	<1	<1	µg/l	1	1	<RL
Xylene	<1	<1	<1	<1	µg/l	1	1	<RL
1,2-Dichlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL
1,4-Dichlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL
2,4-Dinitrophenol	<5	<5	<5	<5	µg/l	5	5	<RL
2,4-Dinitrotoluene	<5	<5	<5	<5	µg/l	5	5	<RL
2-Methylphenol	<5	<5	<5	<5	µg/l	5	5	<RL
3-Methylphenol/ 4-Methylphenol	<5	<5	<5	<5	µg/l	5	5	<RL
Hexachlorobenzene	<5	<5	<5	<5	µg/l	5	5	<RL
Hexachloroethane	<5	<5	<5	<5	µg/l	5	5	<RL
Nitrobenzene	<5	<5	<5	<5	µg/l	5	5	<RL
Pentachlorophenol	<5	<5	<5	<5	µg/l	5	5	<RL
Pyridine	<5	<5	<5	<5	µg/l	5	5	<RL
Isobutanol	<2	<2	<2	<2	mg/l	2	2	<RL
Alkalinity	42	42	46	44	mg/l	4	4	55.8
Bromide	6.04	5.22	6.36	6.51	mg/l	1	0.2	14.1
Chloride	5140	5170	4970	4820	mg/l	0.5	2	6200
Density	1.011	1.011	1.009	1.009	g/ml	N/A <sup>d</sup>	N/A	1.02
Fluoride	2.2	2.15	2.44	2.42	mg/l	0.1	0.1	4.85
Iodide	<2.0	<2.0	<2.0	<2.0	mg/l	2	2	<2.0
Nitrate (as N)	<0.10	<0.10	<0.10	<0.10	mg/l	0.1	2	7.45
Orthophosphate (as P)	<0.04	<0.04	<0.04	<0.04	mg/l	0.04	0.04	0.34

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**Table 6.7 - Analytical Results for Groundwater Sampled from Well WQSP-6**

Parameter	Concentration						Reporting		95 <sup>th</sup> UTLV <sup>a</sup>
	Round 12		Round 13		Units	Round	Round		
	Sample	Dup.	Sample	Dup.		12	13		
pH	7.71	7.74	7.8	7.8	SU <sup>e</sup>	N/A	N/A	7.50-7.90	
Specific conductance	20100	20400	16600	16500	µmhos/cm	N/A	N/A	27660	
Sulfate	4600	4720	4500	4510	mg/l	0.5	2	5557	
Total dissolved solids	16800	16300	16000	15600	mg/l	10	10	22500	
Total organic carbon	1.57	<1.0	1.14	<1.0	mg/l	1	1	10.14	
Total organic halogen	2.1	2.1	2.2	2.25	mg/l	NR	0.005	1.54	
Total phenols	<0.10	<0.10	<0.10	<0.10	mg/l	0.1	0.1	<0.10	
Total suspended solids	<1.0	<1.0	<1.0	<1.0	mg/l	1	1	14.8	
Antimony	<0.013	<0.013	<0.025	<0.025	mg/l	0.013	0.025	0.14	
Arsenic	<0.05	<0.05	<0.01	<0.01	mg/l	0.05	0.01	<0.50	
Barium	<0.020	<0.020	<0.100	<0.100	mg/l	0.02	0.1	<1.0	
Beryllium	<0.010	<0.010	<0.0025	<0.025	mg/l	0.01	0.003	<0.020	
Boron	11.1	13.9	20.3	17.6	mg/l	0.5	0.5	17.5	
Cadmium	<0.010	<0.010	<0.005	<0.005	mg/l	0.01	0.01	<0.050	
Calcium	663	687	672	688	mg/l	0.5	0.2	796	
Chromium	<0.025	<0.025	<0.010	<0.010	mg/l	0.025	0.01	<0.50	
Cobalt	<0.013	<0.013	<0.025	<0.025	mg/l	0.013	0.025	<0.50	
Copper	<0.050	<0.050	<0.125	<0.125	mg/l	0.05	0.125	<1.0	
Iron	0.0886	0.131	<0.050	<0.050	mg/l	0.05	0.05	3.105	
Lead	0.0113	0.0132	<0.010	<0.010	mg/l	0.02	0.01	0.150	
Lithium	0.99	1.08	0.369	0.369	mg/l	0.01	0.01	0.468	
Magnesium	212	231	234	236	mg/l	0.5	0.2	255	
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	mg/l	0	0	<0.002	
Nickel	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	<0.50	
Potassium	208	204	278	282	mg/l	0.5	0.2	270	
Selenium	0.0188	0.019	<0.050	<0.050	mg/l	0.13	0.05	<0.10	
Silica	4.58	5.8	4.15	4.16	mg/l	0.5	0.5	18.2	
Silver	<0.013	<0.013	<0.0125	<0.0125	mg/l	0.013	0.013	<0.50	
Sodium	4320	4330	4090	4230	mg/l	0.5	0.2	6,290	
Thallium	0.013	<0.013	<0.050	<0.050	mg/l	0.013	0.05	0.560	
Tin	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	<0.10	
Vanadium	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	<0.10	
Zinc	<0.050	<0.050	0.025	<0.025	mg/l	0.05	0.025	<5.00	

<sup>a</sup> 95<sup>th</sup> Upper Tolerance Limit Value, equivalent to 95% Confidence Limit

<sup>b</sup> Reporting Limit

<sup>c</sup> Not reported by the laboratory

<sup>d</sup> Not Applicable

<sup>e</sup> Standard Unit

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Table 6.8 - Analytical Results for Groundwater Sampled from Well WQSP-6A

Parameter	Concentration						Reporting		95 <sup>th</sup> UTLV <sup>a</sup>	
	Round 12		Round 13		Units					
	Sample	Dup.	Sample	Dup.	Round 12	Round 13				
1,1,1-Trichloroethane	<1	<1	<1	<1	µg/l		1	1	<RL <sup>b</sup>	
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	µg/l		1	1	<RL	
1,1,2-Trichloroethane	<1	<1	<1	<1	µg/l		1	1	<RL	
1,1-Dichloroethane	<1	<1	<1	<1	µg/l		1	1	<RL	
1,1-Dichloroethylene	<1	<1	<1	<1	µg/l		1	1	<RL	
1,2-Dichloroethane	<1	<1	<1	<1	µg/l		1	1	<RL	
Carbon tetrachloride	<1	<1	<1	<1	µg/l		1	1	<RL	
Chlorobenzene	<1	<1	<1	<1	µg/l		1	1	<RL	
Chloroform	<1	<1	<1	<1	µg/l		1	1	<RL	
cis-1,2-Dichloroethylene	<1	<1	<1	<1	µg/l		1	1	<RL	
Methyl ethyl ketone	<5	<5	<5	<5	µg/l		5	5	<RL	
Methylene chloride	<5	<5	<5	<5	µg/l		5	5	<RL	
Tetrachloroethylene	<1	<1	<1	<1	µg/l		1	1	<RL	
Toluene	<1	<1	<1	<1	µg/l		1	1	<RL	
Trichloroethylene	<1	<1	<1	<1	µg/l		1	1	<RL	
Trichlorofluoromethane	<1	<1	<1	<1	µg/l		1	1	<RL	
Vinyl chloride	<1	<1	<1	<1	µg/l		1	1	<RL	
Xylene	<1	<1	<1	<1	µg/l		1	1	<RL	
1,2-Dichlorobenzene	<5	<5	<5	<5	µg/l		5	5	<RL	
1,4-Dichlorobenzene	<5	<5	<5	<5	µg/l		5	5	<RL	
2,4-Dinitrophenol	<5	<5	<5	<5	µg/l		5	5	<RL	
2,4-Dinitrotoluene	<5	<5	<5	<5	µg/l		5	5	<RL	
2-Methylphenol	<5	<5	<5	<5	µg/l		5	5	<RL	
3-Methylphenol/ 4-Methylphenol	<5	<5	<5	<5	µg/l		5	5	<RL	
Hexachlorobenzene	<5	<5	<5	<5	µg/l		5	5	<RL	
Hexachloroethane	<5	<5	<5	<5	µg/l		5	5	<RL	
Nitrobenzene	<5	<5	<5	<5	µg/l		5	5	<RL	
Pentachlorophenol	<5	<5	<5	<5	µg/l		5	5	<RL	
Pyridine	<5	<5	<5	<5	µg/l		5	5	<RL	
Isobutanol	<2	<2	<2	<2	mg/l		2	2	<RL	
Alkalinity	104	106	102	102	mg/l		4	4	113	
Bromide	1.23	1.23	1.14	<1.11	mg/l		1	0.2	14.5	
Chloride	536	505	414	411	mg/l		0.5	2	1040	
Density	1.005	1.005	1.005	1.005	g/ml	N/A <sup>c</sup>	N/A	1.01		
Fluoride	1.91	1.91	1.39	1.44	mg/l		0.1	0.1	2.95	
Iodide	<2.0	<2.0	<2.0	<2.0	mg/l		2	2	<2.0	
Nitrate (as N)	6.37	6.37	3.67	3.82	mg/l		0.1	0.1	12.2	
Orthophosphate (as P)	<0.04	<0.04	<0.04	<0.04	mg/l		0.04	0.04	0.11	

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Table 6.8 - Analytical Results for Groundwater Sampled from Well WQSP-6A

pH	7.4	7.3	7.52	7.51	SU <sup>d</sup>	N/A	N/A	6.80-8.00
Specific conductance	4400	4370	4160	4050	µmhos/cm	N/A	N/A	5192
Sulfate	1900	1830	1900	1870	mg/l	0.5	2	2543
Total dissolved solids	3680	3670	4600	4550	mg/l	10	10	11000
Total organic carbon	1.28	<1.0	<1.0	<1.0	mg/l	1	1	15.45
Total organic halogen	0.029	0.041	0.039	0.039	mg/l	NR	0.005	0.19
Total phenols	<0.10	<0.10	<0.10	<0.10	mg/l	0.1	0.1	<0.28
Total suspended solids	<1.0	<1.0	<1.0	<1.0	mg/l	1	1	91
Antimony	<0.013	<0.013	<0.025	<0.025	mg/l	0.013	0.025	0.48
Arsenic	<0.050	<0.050	<0.010	<0.010	mg/l	0.05	0.01	<0.50
Barium	<0.020	<0.020	<0.100	<0.100	mg/l	0.02	0.1	<0.10
Beryllium	<0.010	<0.010	<0.0025	<0.0025	mg/l	0.01	0.003	<0.01
Boron	0.38	0.362	0.397	0.376	mg/l	0.05	0.05	<0.75
Cadmium	<0.010	<0.010	<0.005	<0.005	mg/l	0.01	0.005	<0.05
Calcium	570	540	622	620	mg/l	0.5	0.5	733
Chromium	<0.025	<0.025	<0.010	<0.010	mg/l	0.025	0.01	<0.50
Cobalt	<0.013	<0.013	<0.025	<0.025	mg/l	0.013	0.025	<0.50
Copper	<0.050	<0.050	<0.0125	<0.0125	mg/l	0.05	0.0125	<1.0
Iron	<0.500	<0.500	<0.050	<0.050	mg/l	0.5	0.05	<1.0
Lead	<0.020	0.013	<0.010	<0.010	mg/l	0.02	0.01	<0.05
Lithium	0.204	0.205	0.135	0.142	mg/l	0.01	0.01	<0.50
Magnesium	150	146	186	169	mg/l	0.5	5	188
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	mg/l	0	0	<0.002
Nickel	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	0.284
Potassium	7.2	7.5	7.55	7.59	mg/l	0.5	0.5	10.1
Selenium	0.0385	0.0222	<0.050	<0.050	mg/l	0.013	0.05	0.220
Silica	10.6	11.2	10.2	9.65	mg/l	0.5	0.5	40.10
Silver	<0.013	<0.013	<0.0125	<0.0125	mg/l	0.013	0.0125	<0.50
Sodium	260	255	302	267	mg/l	0.5	0.5	369.0
Thallium	<0.013	<0.013	<0.050	<0.050	mg/l	0.013	0.05	0.058
Tin	<0.025	<0.025	<0.025	<0.025	mg/l	0.025	0.025	0.230
Vanadium	0.052	0.051	0.046	0.0465	mg/l	0.025	0.025	<0.50
Zinc	<0.050	<0.050	0.025	<0.025	mg/l	0.05	0.025	<5.00

<sup>a</sup> 95<sup>th</sup> Upper Tolerance Limit Value, equivalent to 95% Confidence Limit

<sup>b</sup> Reporting Limit

<sup>c</sup> Not Applicable

<sup>d</sup> Standard Unit

<sup>e</sup> Not reported by the laboratory

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
AEC-7	CUL	3657.25	1/9/01	07:23	619.94	0.98	618.96	188.66	3038.29	926.07	3061.25
AEC-7	CUL	3657.25	2/6/01	07:15	620.01	0.98	619.03	188.68	3038.22	926.05	3061.17
AEC-7	CUL	3657.25	3/6/01	14:18	619.90	0.98	618.92	188.65	3038.33	926.08	3061.29
AEC-7	CUL	3657.25	4/4/01	11:19	619.75	0.98	618.77	188.60	3038.48	926.13	3061.45
AEC-7	CUL	3657.25	5/8/01	07:37	620.01	0.98	619.03	188.68	3038.22	926.05	3061.17
AEC-7	CUL	3657.25	6/7/01	09:49	619.87	0.98	618.89	188.64	3038.36	926.09	3061.32
AEC-7	CUL	3657.25	7/10/01	08:30	619.97	0.98	618.99	188.67	3038.26	926.06	3061.21
AEC-7	CUL	3657.25	8/8/01	14:11	620.11	0.98	619.13	188.71	3038.12	926.02	3061.06
AEC-7	CUL	3657.25	9/7/01	13:35	619.73	0.98	618.75	188.60	3038.50	926.13	3061.48
AEC-7	CUL	3657.25	10/8/01	12:43	620.00	0.98	619.02	188.68	3038.23	926.05	3061.18
AEC-7	CUL	3657.25	11/13/01	12:53	619.94	0.98	618.96	188.66	3038.29	926.07	3061.25
AEC-7	CUL	3657.25	12/4/01	11:58	619.94	0.98	618.96	188.66	3038.29	926.07	3061.25
AEC-8	B/C	3537.10	1/9/01	07:52	510.58	0.00	510.58	155.62	3026.52	922.48	
AEC-8	B/C	3537.10	2/6/01	07:43	508.38	0.00	508.38	154.95	3028.72	923.15	
AEC-8	B/C	3537.10	3/6/01	14:48	506.92	0.00	506.92	154.51	3030.18	923.60	
AEC-8	B/C	3537.10	4/4/01	11:41	506.06	0.00	506.06	154.25	3031.04	923.86	
AEC-8	B/C	3537.10	5/8/01	08:02	504.13	0.00	504.13	153.66	3032.97	924.45	
AEC-8	B/C	3537.10	6/7/01	10:14	502.53	0.00	502.53	153.17	3034.57	924.94	
AEC-8	B/C	3537.10	7/10/01	08:55	500.82	0.00	500.82	152.65	3036.28	925.46	
AEC-8	B/C	3537.10	8/8/01	14:29	499.31	0.00	499.31	152.19	3037.79	925.92	
AEC-8	B/C	3537.10	9/7/01	13:50	497.69	0.00	497.69	151.70	3039.41	926.41	
AEC-8	B/C	3537.10	10/8/01	13:06	496.15	0.00	496.15	151.23	3040.95	926.88	
AEC-8	B/C	3537.10	11/12/01	11:12	494.44	0.00	494.44	150.71	3042.66	927.40	
AEC-8	B/C	3537.10	12/3/01	11:45	493.40	0.00	493.40	150.39	3043.70	927.72	
C-2737 (ANNULUS)	MAG	3399.30	4/5/01	10:49	257.83	0.00	257.83	78.59	3141.47	957.52	
C-2737 (ANNULUS)	MAG	3399.30	5/8/01	13:43	253.96	0.00	253.96	77.41	3145.34	958.70	
C-2737 (ANNULUS)	MAG	3399.30	6/6/01	06:57	253.44	0.00	253.44	77.25	3145.86	958.86	
C-2737 (ANNULUS)	MAG	3399.30	7/9/01	09:25	253.58	0.00	253.58	77.29	3145.72	958.82	
C-2737 (ANNULUS)	MAG	3399.30	8/7/01	13:13	253.77	0.00	253.77	77.35	3145.53	958.76	
C-2737 (ANNULUS)	MAG	3399.30	9/6/01	12:45	253.79	0.00	253.79	77.36	3145.51	958.75	
C-2737 (ANNULUS)	MAG	3399.30	10/10/01	07:55	254.00	0.00	254.00	77.42	3145.30	958.69	
C-2737 (ANNULUS)	MAG	3399.30	11/14/01	10:53	254.90	0.00	254.90	77.69	3144.40	958.41	
C-2737 (ANNULUS)	MAG	3399.30	12/5/01	10:15	254.34	0.00	254.34	77.52	3144.96	958.58	
C-2737 (PIP)	CUL	3399.30	4/5/01	10:43	386.07	0.75	385.32	117.45	3013.98	918.66	
C-2737 (PIP)	CUL	3399.30	5/8/01	13:39	376.04	0.75	375.29	114.39	3024.01	921.72	
C-2737 (PIP)	CUL	3399.30	6/6/01	06:51	385.94	0.75	385.19	117.41	3014.11	918.70	
C-2737 (PIP)	CUL	3399.30	7/9/01	09:14	385.82	0.75	385.07	117.37	3014.23	918.74	

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
C-2737 (PIP)	CUL	3399.30	8/7/01	13:08	385.75	0.75	385.00	117.35	3014.30	918.76	
C-2737 (PIP)	CUL	3399.30	9/6/01	12:40	385.42	0.75	384.67	117.25	3014.63	918.86	
C-2737 (PIP)	CUL	3399.30	10/10/01	07:48	385.43	0.75	384.68	117.25	3014.62	918.86	
C-2737 (PIP)	CUL	3399.30	11/14/01	10:49	385.55	0.75	384.80	117.29	3014.50	918.82	
C-2737 (PIP)	CUL	3399.30	12/5/01	10:11	385.78	0.75	385.03	117.36	3014.27	918.75	
CB-1	CUL	3328.38	1/10/01	12:49	84.76	0.69	84.07	25.62	3244.31	988.87	3256.31
CB-1	CUL	3328.38	2/5/01	13:05	83.66	0.69	82.97	25.29	3245.41	989.20	3257.44
CB-1	CUL	3328.38	4/5/01	08:36	77.98	0.69	77.29	23.56	3251.09	990.93	3263.30
CB-1	CUL	3328.38	5/9/01	10:26	73.15	0.69	72.46	22.09	3255.92	992.40	3268.28
CB-1	CUL	3328.38	7/11/01	10:50	76.21	0.69	75.52	23.02	3252.86	991.47	3265.12
CB-1	CUL	3328.38	8/7/01	09:15	72.55	0.69	71.86	21.90	3256.52	992.59	3268.90
CB-1	CUL	3328.38	10/9/01	12:31	62.84	0.69	62.15	18.94	3266.23	995.55	3278.91
CB-1	CUL	3328.38	11/12/01	10:11	57.79	0.69	57.10	17.40	3271.28	997.09	3284.11
CB-1	CUL	3328.38	3/7/01	11:51	81.88	0.69	81.19	24.75	3247.19	989.74	3259.28
CB-1	CUL	3328.38	6/6/01	12:17	75.63	0.69	74.94	22.84	3253.44	991.65	3265.72
CB-1	CUL	3328.38	9/5/01	14:45	68.11	0.69	67.42	20.55	3260.96	993.94	3273.47
CB-1	CUL	3328.38	12/3/01	10:19	54.79	0.69	54.10	16.49	3274.28	998.00	3287.21
CB-1 (PIP)	B/C	3328.38	1/10/01	12:45	314.36	0.76	313.60	95.59	3014.78	918.90	
CB-1 (PIP)	B/C	3328.38	2/5/01	12:53	314.46	0.76	313.70	95.62	3014.68	918.87	
CB-1 (PIP)	B/C	3328.38	3/7/01	11:47	314.42	0.76	313.66	95.60	3014.72	918.89	
CB-1 (PIP)	B/C	3328.38	4/5/01	08:28	314.29	0.76	313.53	95.56	3014.85	918.93	
CB-1 (PIP)	B/C	3328.38	5/9/01	10:29	314.43	0.76	313.67	95.61	3014.71	918.88	
CB-1 (PIP)	B/C	3328.38	6/6/01	12:14	314.37	0.76	313.61	95.59	3014.77	918.90	
CB-1 (PIP)	B/C	3328.38	7/11/01	10:40	314.00	0.76	313.24	95.48	3015.14	919.01	
CB-1 (PIP)	B/C	3328.38	8/7/01	09:08	314.50	0.76	313.74	95.63	3014.64	918.86	
CB-1 (PIP)	B/C	3328.38	9/5/01	14:40	314.48	0.76	313.72	95.62	3014.66	918.87	
CB-1 (PIP)	B/C	3328.38	10/9/01	12:28	314.40	0.76	313.64	95.60	3014.74	918.89	
CB-1 (PIP)	B/C	3328.38	11/12/01	10:03	314.58	0.76	313.82	95.65	3014.56	918.84	
CB-1 (PIP)	B/C	3328.38	12/3/01	10:14	314.48	0.76	313.72	95.62	3014.66	918.87	
DOE-1	CUL	3466.04	1/10/01	13:20	490.85	0.00	490.85	149.61	2975.19	906.84	3003.54
DOE-1	CUL	3466.04	2/5/01	13:31	490.79	0.00	490.79	149.59	2975.25	906.86	3003.61
DOE-1	CUL	3466.04	3/8/01	07:34	490.42	0.00	490.42	149.48	2975.62	906.97	3004.01
DOE-1	CUL	3466.04	4/5/01	09:05	490.12	0.00	490.12	149.39	2975.92	907.06	3004.33
DOE-1	CUL	3466.04	5/9/01	09:27	489.95	0.00	489.95	149.34	2976.09	907.11	3004.52
DOE-1	CUL	3466.04	6/6/01	10:25	489.79	0.00	489.79	149.29	2976.25	907.16	3004.69
DOE-1	CUL	3466.04	7/10/01	10:45	489.64	0.00	489.64	149.24	2976.40	907.21	3004.85
DOE-1	CUL	3466.04	8/7/01	07:18	489.40	0.00	489.40	149.17	2976.64	907.28	3005.11

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
DOE-1	CUL	3466.04	9/7/01	13:15	489.43	0.00	489.43	149.18	2976.61	907.27	3005.08
DOE-1	CUL	3466.04	10/9/01	12:51	489.35	0.00	489.35	149.15	2976.69	907.30	3005.17
DOE-1	CUL	3466.04	11/13/01	14:30	489.39	0.00	489.39	149.17	2976.65	907.28	3005.12
DOE-1	CUL	3466.04	12/5/01	12:38	489.33	0.00	489.33	149.15	2976.71	907.30	3005.19
DOE-2	CUL	3419.09	1/8/01	14:00	378.24	0.00	378.24	115.29	3040.85	926.85	3053.63
DOE-2	CUL	3419.09	2/6/01	11:56	378.35	0.00	378.35	115.32	3040.74	926.82	3053.52
DOE-2	CUL	3419.09	3/6/01	12:48	378.31	0.00	378.31	115.31	3040.78	926.83	3053.56
DOE-2	MAG	3419.09	4/4/01	13:32	476.75	0.00	476.75	145.31	2942.34	896.83	
DOE-2	MAG	3419.09	5/8/01	09:34	371.51	0.00	371.51	113.24	3047.58	928.90	
DOE-2	MAG	3419.09	6/5/01	12:46	370.65	0.00	370.65	112.97	3048.44	929.16	
DOE-2	MAG	3419.09	7/9/01	07:40	369.85	0.00	369.85	112.73	3049.24	929.41	
DOE-2	MAG	3419.09	9/12/01	08:30	365.98	0.00	365.98	111.55	3053.11	930.59	
DOE-2	MAG	3419.09	10/23/01	09:44	362.54	0.00	362.54	110.50	3056.55	931.64	
DOE-2	MAG	3419.09	11/12/01	14:52	361.90	0.00	361.90	110.31	3057.19	931.83	
DOE-2	MAG	3419.09	12/3/01	12:14	360.97	0.00	360.97	110.02	3058.12	932.11	
ERDA-9	CUL	3410.10	1/9/01	13:05	403.46	0.65	402.81	122.78	3007.29	916.62	3022.68
ERDA-9	CUL	3410.10	2/5/01	10:07	404.10	0.65	403.45	122.97	3006.65	916.43	3022.00
ERDA-9	CUL	3410.10	3/7/01	14:24	403.47	0.65	402.82	122.78	3007.28	916.62	3022.66
ERDA-9	CUL	3410.10	4/5/01	13:15	403.00	0.65	402.35	122.64	3007.75	916.76	3023.16
ERDA-9	CUL	3410.10	5/8/01	13:25	402.86	0.65	402.21	122.59	3007.89	916.80	3023.30
ERDA-9	CUL	3410.10	6/6/01	06:42	402.47	0.65	401.82	122.47	3008.28	916.92	3023.71
ERDA-9	CUL	3410.10	7/11/01	07:35	402.30	0.65	401.65	122.42	3008.45	916.98	3023.89
ERDA-9	CUL	3410.10	8/7/01	13:48	402.16	0.65	401.51	122.38	3008.59	917.02	3024.04
ERDA-9	CUL	3410.10	9/6/01	13:45	401.96	0.65	401.31	122.32	3008.79	917.08	3024.25
ERDA-9	CUL	3410.10	10/10/01	08:04	401.91	0.65	401.26	122.30	3008.84	917.09	3024.30
ERDA-9	CUL	3410.10	11/14/01	10:40	402.05	0.65	401.40	122.35	3008.70	917.05	3024.15
ERDA-9	CUL	3410.10	12/5/01	10:22	402.15	0.65	401.50	122.38	3008.60	917.02	3024.05
H-01 (ANNULUS)	MAG	3399.84	1/9/01	13:18	168.27	0.00	168.27	51.29	3231.57	984.98	
H-01 (ANNULUS)	MAG	3399.84	2/5/01	08:51	169.95	0.00	169.95	51.80	3229.89	984.47	
H-01 (PIP)	CUL	3399.84	1/9/01	13:13	365.00	0.66	364.34	111.05	3035.50	925.22	3036.15
H-01 (PIP)	CUL	3399.84	2/5/01	08:40	365.17	0.66	364.51	111.10	3035.33	925.17	3035.98
H-02a	CUL	3378.09	3/8/01	10:06	341.03	0.00	341.03	103.95	3037.06	925.70	3040.58
H-02a	CUL	3378.09	6/6/01	10:10	340.75	0.00	340.75	103.86	3037.34	925.78	3040.86
H-02a	CUL	3378.09	9/6/01	12:15	340.50	0.00	340.50	103.78	3037.59	925.86	3041.12
H-02a	CUL	3378.09	12/5/01	13:42	340.32	0.00	340.32	103.73	3037.77	925.91	3041.30
H-02b1	MAG	3378.46	1/9/01	13:33	231.90	0.00	231.90	70.68	3146.56	959.07	
H-02b1	MAG	3378.46	2/6/01	13:45	231.98	0.00	231.98	70.71	3146.48	959.05	

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
H-02b1	MAG	3378.46	3/8/01	10:10	231.88	0.00	231.88	70.68	3146.58	959.08	
H-02b1	MAG	3378.46	4/5/01	14:43	231.74	0.00	231.74	70.63	3146.72	959.12	
H-02b1	MAG	3378.46	5/8/01	14:06	231.61	0.00	231.61	70.59	3146.85	959.16	
H-02b1	MAG	3378.46	6/6/01	09:56	231.51	0.00	231.51	70.56	3146.95	959.19	
H-02b1	MAG	3378.46	7/11/01	14:05	231.42	0.00	231.42	70.54	3147.04	959.22	
H-02b1	MAG	3378.46	8/7/01	11:57	231.34	0.00	231.34	70.51	3147.12	959.24	
H-02b1	MAG	3378.46	9/6/01	12:25	231.23	0.00	231.23	70.48	3147.23	959.28	
H-02b1	MAG	3378.46	10/10/01	07:28	231.23	0.00	231.23	70.48	3147.23	959.28	
H-02b1	MAG	3378.46	11/14/01	11:01	231.26	0.00	231.26	70.49	3147.20	959.27	
H-02b1	MAG	3378.46	12/5/01	13:34	231.27	0.00	231.27	70.49	3147.19	959.26	
H-02b2	CUL	3378.31	1/9/01	13:29	341.46	0.00	341.46	104.08	3036.85	925.63	3039.20
H-02b2	CUL	3378.31	2/6/01	13:52	341.40	0.00	341.40	104.06	3036.91	925.65	3039.26
H-02b2	CUL	3378.31	3/8/01	10:02	341.19	0.00	341.19	103.99	3037.12	925.71	3039.47
H-02b2	CUL	3378.31	4/5/01	14:45	341.15	0.00	341.15	103.98	3037.16	925.73	3039.51
H-02b2	CUL	3378.31	5/8/01	14:11	341.32	0.00	341.32	104.03	3036.99	925.67	3039.34
H-02b2	CUL	3378.31	6/6/01	10:05	341.03	0.00	341.03	103.95	3037.28	925.76	3039.63
H-02b2	CUL	3378.31	7/11/01	14:14	341.04	0.00	341.04	103.95	3037.27	925.76	3039.62
H-02b2	CUL	3378.31	8/7/01	12:51	341.01	0.00	341.01	103.94	3037.30	925.77	3039.65
H-02b2	CUL	3378.31	9/6/01	12:10	340.70	0.00	340.70	103.85	3037.61	925.86	3039.96
H-02b2	CUL	3378.31	10/10/01	07:33	340.69	0.00	340.69	103.84	3037.62	925.87	3039.97
H-02b2	CUL	3378.31	11/14/01	11:05	340.52	0.00	340.52	103.79	3037.79	925.92	3040.14
H-02b2	CUL	3378.31	12/5/01	13:38	340.71	0.00	340.71	103.85	3037.60	925.86	3039.95
H-02c	CUL	3378.41	3/8/01	09:56	341.39	0.00	341.39	104.06	3037.02	925.68	3049.88
H-02c	CUL	3378.41	6/6/01	09:50	341.00	0.00	341.00	103.94	3037.41	925.80	3050.29
H-02c	CUL	3378.41	9/6/01	12:04	340.77	0.00	340.77	103.87	3037.64	925.87	3050.53
H-02c	CUL	3378.41	12/5/01	13:29	339.70	0.00	339.70	103.54	3038.71	926.20	3051.65
H-03b1	MAG	3390.64	1/9/01	13:45	238.76	0.00	238.76	72.77	3151.88	960.69	
H-03b1	MAG	3390.64	2/6/01	14:04	238.69	0.00	238.69	72.75	3151.95	960.71	
H-03b1	MAG	3390.64	3/8/01	10:26	238.45	0.00	238.45	72.68	3152.19	960.79	
H-03b1	MAG	3390.64	4/5/01	13:45	239.38	0.00	239.38	72.96	3151.26	960.50	
H-03b1	MAG	3390.64	5/9/01	11:14	239.66	0.00	239.66	73.05	3150.98	960.42	
H-03b1	MAG	3390.64	6/6/01	07:10	239.47	0.00	239.47	72.99	3151.17	960.48	
H-03b1	MAG	3390.64	7/10/01	12:45	239.63	0.00	239.63	73.04	3151.01	960.43	
H-03b1	MAG	3390.64	8/7/01	13:24	239.76	0.00	239.76	73.08	3150.88	960.39	
H-03b1	MAG	3390.64	9/6/01	13:00	239.73	0.00	239.73	73.07	3150.91	960.40	
H-03b1	MAG	3390.64	10/10/01	08:17	239.87	0.00	239.87	73.11	3150.77	960.35	
H-03b1	MAG	3390.64	11/14/01	10:29	240.01	0.00	240.01	73.16	3150.63	960.31	

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
H-03b1	MAG	3390.64	12/5/01	10:32	240.09	0.00	240.09	73.18	3150.55	960.29	
H-03b2	CUL	3390.03	1/9/01	14:01	391.80	0.00	391.80	119.42	2998.23	913.86	3009.55
H-03b2	CUL	3390.03	2/6/01	14:20	391.68	0.00	391.68	119.38	2998.35	913.90	3009.67
H-03b2	CUL	3390.03	3/8/01	10:52	391.45	0.00	391.45	119.31	2998.58	913.97	3009.91
H-03b2	CUL	3390.03	4/5/01	13:56	391.36	0.00	391.36	119.29	2998.67	913.99	3010.01
H-03b2	CUL	3390.03	5/9/01	10:56	392.14	0.00	392.14	119.52	2997.89	913.76	3009.20
H-03b2	CUL	3390.03	6/6/01	07:36	391.40	0.00	391.40	119.30	2998.63	913.98	3009.97
H-03b2	CUL	3390.03	7/10/01	12:50	391.15	0.00	391.15	119.22	2998.88	914.06	3010.22
H-03b2	CUL	3390.03	8/7/01	13:33	391.15	0.00	391.15	119.22	2998.88	914.06	3010.22
H-03b2	CUL	3390.03	9/6/01	13:30	390.74	0.00	390.74	119.10	2999.29	914.18	3010.65
H-03b2	CUL	3390.03	10/10/01	08:34	390.79	0.00	390.79	119.11	2999.24	914.17	3010.60
H-03b2	CUL	3390.03	11/14/01	09:19	391.18	0.00	391.18	119.23	2998.85	914.05	3010.19
H-03b2	CUL	3390.03	12/5/01	10:54	391.09	0.00	391.09	119.20	2998.94	914.08	3010.29
H-03b3	CUL	3388.67	3/8/01	10:43	390.34	0.00	390.34	118.98	2998.33	913.89	3008.01
H-03b3	CUL	3388.67	6/6/01	07:30	389.85	0.00	389.85	118.83	2998.82	914.04	3008.52
H-03b3	CUL	3388.67	9/6/01	13:25	389.20	0.00	389.20	118.63	2999.47	914.24	3009.19
H-03b3	CUL	3388.67	12/5/01	10:47	389.67	0.00	389.67	118.77	2999.00	914.10	3008.70
H-03d/49 (PIP)	49ER	3390.01	1/9/01	13:50	302.52	2.22	300.30	91.53	3089.71	941.74	
H-03d/49 (PIP)	49ER	3390.01	2/6/01	14:07	302.37	2.22	300.15	91.49	3089.86	941.79	
H-03d/49 (PIP)	49ER	3390.01	3/8/01	10:31	302.05	2.22	299.83	91.39	3090.18	941.89	
H-03d/49 (PIP)	49ER	3390.01	4/5/01	13:48	301.81	2.22	299.59	91.32	3090.42	941.96	
H-03d/49 (PIP)	49ER	3390.01	5/9/01	11:03	301.50	2.22	299.28	91.22	3090.73	942.05	
H-03d/49 (PIP)	49ER	3390.01	6/6/01	07:19	301.34	2.22	299.12	91.17	3090.89	942.10	
H-03d/49 (PIP)	49ER	3390.01	7/10/01	12:35	301.23	2.22	299.01	91.14	3091.00	942.14	
H-03d/49 (PIP)	49ER	3390.01	8/7/01	13:29	301.26	2.22	299.04	91.15	3090.97	942.13	
H-03d/49 (PIP)	49ER	3390.01	9/6/01	13:05	301.00	2.22	298.78	91.07	3091.23	942.21	
H-03d/49 (PIP)	49ER	3390.01	10/10/01	08:22	300.84	2.22	298.62	91.02	3091.39	942.26	
H-03d/49 (PIP)	49ER	3390.01	11/14/01	10:23	300.62	2.22	298.40	90.95	3091.61	942.32	
H-03d/49 (PIP)	49ER	3390.01	12/5/01	10:37	300.59	2.22	298.37	90.94	3091.64	942.33	
H-03d/DL (PVC)	DL	3390.01	1/9/01	13:54	319.13	2.22	316.91	96.59	3073.10	936.68	
H-03d/DL (PVC)	DL	3390.01	2/6/01	14:13	319.14	2.22	316.92	96.60	3073.09	936.68	
H-03d/DL (PVC)	DL	3390.01	3/8/01	10:34	318.98	2.22	316.76	96.55	3073.25	936.73	
H-03d/DL (PVC)	DL	3390.01	4/5/01	13:52	318.91	2.22	316.69	96.53	3073.32	936.75	
H-03d/DL (PVC)	DL	3390.01	5/9/01	11:10	318.77	2.22	316.55	96.48	3073.46	936.79	
H-03d/DL (PVC)	DL	3390.01	6/6/01	07:24	318.70	2.22	316.48	96.46	3073.53	936.81	
H-03d/DL (PVC)	DL	3390.01	7/10/01	12:40	318.58	2.22	316.36	96.43	3073.65	936.85	
H-03d/DL (PVC)	DL	3390.01	8/7/01	13:38	318.53	2.22	316.31	96.41	3073.70	936.86	

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
H-03d/DL (PVC)	DL	3390.01	9/4/01	13:15	318.44	2.22	316.22	96.38	3073.79	936.89	
H-03d/DL (PVC)	DL	3390.01	10/10/01	08:27	318.37	2.22	316.15	96.36	3073.86	936.91	
H-03d/DL (PVC)	DL	3390.01	11/14/01	10:20	318.29	2.22	316.07	96.34	3073.94	936.94	
H-03d/DL (PVC)	DL	3390.01	12/5/01	10:41	318.27	2.22	316.05	96.33	3073.96	936.94	
H-04b	CUL	3333.35	1/9/01	14:16	332.85	0.00	332.85	101.45	3000.50	914.55	3004.07
H-04b	CUL	3333.35	2/7/01	12:00	332.60	0.00	332.60	101.38	3000.75	914.63	3004.33
H-04b	CUL	3333.35	3/8/01	09:23	332.40	0.00	332.40	101.32	3000.95	914.69	3004.53
H-04b	CUL	3333.35	4/5/01	14:19	332.29	0.00	332.29	101.28	3001.06	914.72	3004.64
H-04b	CUL	3333.35	5/9/01	07:47	332.25	0.00	332.25	101.27	3001.10	914.74	3004.69
H-04b	CUL	3333.35	6/6/01	09:26	331.97	0.00	331.97	101.18	3001.38	914.82	3004.97
H-04b	CUL	3333.35	7/11/01	08:54	332.19	0.00	332.19	101.25	3001.16	914.75	3004.75
H-04b	CUL	3333.35	8/7/01	10:39	332.36	0.00	332.36	101.30	3000.99	914.70	3004.57
H-04b	CUL	3333.35	9/6/01	14:12	332.24	0.00	332.24	101.27	3001.11	914.74	3004.70
H-04b	CUL	3333.35	10/10/01	09:04	332.31	0.00	332.31	101.29	3001.04	914.72	3004.62
H-04b	CUL	3333.35	11/14/01	10:03	332.18	0.00	332.18	101.25	3001.17	914.76	3004.76
H-04b	CUL	3333.35	12/5/01	13:13	332.28	0.00	332.28	101.28	3001.07	914.73	3004.66
H-04c	MAG	3334.04	1/9/01	14:24	190.06	0.00	190.06	57.93	3143.98	958.29	
H-04c	MAG	3334.04	2/7/01	12:12	190.00	0.00	190.00	57.91	3144.04	958.30	
H-04c	MAG	3334.04	3/8/01	09:27	189.88	0.00	189.88	57.88	3144.16	958.34	
H-04c	MAG	3334.04	4/5/01	14:22	189.74	0.00	189.74	57.83	3144.30	958.38	
H-04c	MAG	3334.04	5/9/01	07:52	189.86	0.00	189.86	57.87	3144.18	958.35	
H-04c	MAG	3334.04	6/6/01	09:33	189.72	0.00	189.72	57.83	3144.32	958.39	
H-04c	MAG	3334.04	7/11/01	09:02	189.85	0.00	189.85	57.87	3144.19	958.35	
H-04c	MAG	3334.04	8/7/01	10:52	189.85	0.00	189.85	57.87	3144.19	958.35	
H-04c	MAG	3334.04	9/6/01	14:05	189.71	0.00	189.71	57.82	3144.33	958.39	
H-04c	MAG	3334.04	10/10/01	08:51	189.76	0.00	189.76	57.84	3144.28	958.38	
H-04c	MAG	3334.04	11/14/01	10:00	189.82	0.00	189.82	57.86	3144.22	958.36	
H-04c	MAG	3334.04	12/5/01	13:09	189.71	0.00	189.71	57.82	3144.33	958.39	
H-05a	CUL	3506.24	3/7/01	08:50	475.09	0.00	475.09	144.81	3031.15	923.89	3071.09
H-05a	CUL	3506.24	6/7/01	10:47	475.05	0.00	475.05	144.80	3031.19	923.91	3071.13
H-05a	CUL	3506.24	9/10/01	07:00	475.23	0.00	475.23	144.85	3031.01	923.85	3070.93
H-05a	CUL	3506.24	12/4/01	11:18	474.94	0.00	474.94	144.76	3031.30	923.94	3071.25
H-05b	CUL	3506.04	1/9/01	08:16	477.67	0.00	477.67	145.59	3028.37	923.05	3073.24
H-05b	CUL	3506.04	2/6/01	08:00	477.71	0.00	477.71	145.61	3028.33	923.03	3073.20
H-05b	CUL	3506.04	3/7/01	08:44	477.59	0.00	477.59	145.57	3028.45	923.07	3073.33
H-05b	CUL	3506.04	4/4/01	11:58	477.40	0.00	477.40	145.51	3028.64	923.13	3073.54
H-05b	CUL	3506.04	5/8/01	10:29	477.62	0.00	477.62	145.58	3028.42	923.06	3073.30

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
H-05b	CUL	3506.04	6/7/01	10:35	477.50	0.00	477.50	145.54	3028.54	923.10	3073.43
H-05b	CUL	3506.04	7/10/01	09:11	477.56	0.00	477.56	145.56	3028.48	923.08	3073.37
H-05b	CUL	3506.04	8/8/01	14:46	477.60	0.00	477.60	145.57	3028.44	923.07	3073.32
H-05b	CUL	3506.04	9/10/01	06:50	477.62	0.00	477.62	145.58	3028.42	923.06	3073.30
H-05b	CUL	3506.04	10/10/01	12:06	477.49	0.00	477.49	145.54	3028.55	923.10	3073.44
H-05b	CUL	3506.04	11/13/01	13:23	477.55	0.00	477.55	145.56	3028.49	923.08	3073.38
H-05b	CUL	3506.04	12/4/01	11:11	477.47	0.00	477.47	145.53	3028.57	923.11	3073.47
H-05c	MAG	3506.04	1/9/01	08:22	349.08	0.00	349.08	106.40	3156.96	962.24	
H-05c	MAG	3506.04	2/6/01	08:07	349.00	0.00	349.00	106.38	3157.04	962.27	
H-05c	MAG	3506.04	3/7/01	08:49	348.95	0.00	348.95	106.36	3157.09	962.28	
H-05c	MAG	3506.04	4/4/01	12:07	348.71	0.00	348.71	106.29	3157.33	962.35	
H-05c	MAG	3506.04	5/8/01	10:35	348.92	0.00	348.92	106.35	3157.12	962.29	
H-05c	MAG	3506.04	6/7/01	10:55	348.65	0.00	348.65	106.27	3157.39	962.37	
H-05c	MAG	3506.04	7/10/01	09:20	348.83	0.00	348.83	106.32	3157.21	962.32	
H-05c	MAG	3506.04	8/8/01	15:00	348.84	0.00	348.84	106.33	3157.20	962.31	
H-05c	MAG	3506.04	9/10/01	07:05	348.89	0.00	348.89	106.34	3157.15	962.30	
H-05c	MAG	3506.04	10/10/01	12:14	348.75	0.00	348.75	106.30	3157.29	962.34	
H-05c	MAG	3506.04	11/13/01	13:31	348.85	0.00	348.85	106.33	3157.19	962.31	
H-05c	MAG	3506.04	12/4/01	11:27	348.75	0.00	348.75	106.30	3157.29	962.34	
H-06a	CUL	3348.11	3/6/01	10:42	295.54	0.00	295.54	90.08	3052.57	930.42	3064.76
H-06a	CUL	3348.11	6/5/01	11:39	295.16	0.00	295.16	89.96	3052.95	930.54	3065.16
H-06a	CUL	3348.11	9/4/01	07:19	295.10	0.00	295.10	89.95	3053.01	930.56	3065.22
H-06a	CUL	3348.11	12/4/01	14:10	294.97	0.00	294.97	89.91	3053.14	930.60	3065.35
H-06b	CUL	3348.25	1/9/01	09:54	296.45	0.00	296.45	90.36	3051.80	930.19	3063.95
H-06b	CUL	3348.25	2/6/01	09:08	296.32	0.00	296.32	90.32	3051.93	930.23	3064.08
H-06b	CUL	3348.25	3/6/01	10:51	296.33	0.00	296.33	90.32	3051.92	930.23	3064.07
H-06b	CUL	3348.25	4/4/01	14:23	296.04	0.00	296.04	90.23	3052.21	930.31	3064.38
H-06b	CUL	3348.25	5/8/01	11:51	296.25	0.00	296.25	90.30	3052.00	930.25	3064.16
H-06b	CUL	3348.25	6/5/01	11:45	295.97	0.00	295.97	90.21	3052.28	930.33	3064.45
H-06b	CUL	3348.25	7/9/01	08:50	295.94	0.00	295.94	90.20	3052.31	930.34	3064.48
H-06b	CUL	3348.25	8/7/01	14:18	295.99	0.00	295.99	90.22	3052.26	930.33	3064.43
H-06b	CUL	3348.25	9/4/01	07:34	295.88	0.00	295.88	90.18	3052.37	930.36	3064.54
H-06b	CUL	3348.25	10/10/01	11:25	295.83	0.00	295.83	90.17	3052.42	930.38	3064.59
H-06b	CUL	3348.25	11/14/01	07:19	295.62	0.00	295.62	90.10	3052.63	930.44	3064.81
H-06b	CUL	3348.25	12/5/01	14:05	295.75	0.00	295.75	90.14	3052.50	930.40	3064.68
H-06c	MAG	3348.52	1/9/01	09:48	284.09	0.00	284.09	86.59	3064.43	934.04	
H-06c	MAG	3348.52	2/6/01	09:00	283.98	0.00	283.98	86.56	3064.54	934.07	

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
H-06c	MAG	3348.52	3/6/01	10:46	283.98	0.00	283.98	86.56	3064.54	934.07	
H-06c	MAG	3348.52	4/4/01	14:15	283.77	0.00	283.77	86.49	3064.75	934.14	
H-06c	MAG	3348.52	5/8/01	11:45	284.02	0.00	284.02	86.57	3064.50	934.06	
H-06c	MAG	3348.52	6/5/01	11:34	283.71	0.00	283.71	86.47	3064.81	934.15	
H-06c	MAG	3348.52	7/9/01	08:45	283.83	0.00	283.83	86.51	3064.69	934.12	
H-06c	MAG	3348.52	8/7/01	14:11	283.85	0.00	283.85	86.52	3064.67	934.11	
H-06c	MAG	3348.52	9/4/01	07:26	283.76	0.00	283.76	86.49	3064.76	934.14	
H-06c	MAG	3348.52	10/10/01	11:19	283.69	0.00	283.69	86.47	3064.83	934.16	
H-06c	MAG	3348.52	11/14/01	07:25	283.60	0.00	283.60	86.44	3064.92	934.19	
H-06c	MAG	3348.52	12/5/01	13:59	283.68	0.00	283.68	86.47	3064.84	934.16	
H-07b1	CUL	3164.17	3/5/01	11:44	166.30	0.00	166.30	50.69	2997.87	913.75	2998.32
H-07b1	CUL	3164.17	6/4/01	11:44	165.99	0.00	165.99	50.59	2998.18	913.85	2998.63
H-07b1	CUL	3164.17	9/5/01	08:05	166.44	0.00	166.44	50.73	2997.73	913.71	2998.18
H-07b1	CUL	3164.17	12/3/01	08:33	166.48	0.00	166.48	50.74	2997.69	913.70	2998.14
H-07b2	CUL	3164.40	1/10/01	09:11	166.48	0.00	166.48	50.74	2997.92	913.77	2997.83
H-07b2	CUL	3164.40	2/7/01	08:16	166.38	0.00	166.38	50.71	2998.02	913.80	2997.93
H-07b2	CUL	3164.40	3/5/01	11:40	166.79	0.00	166.79	50.84	2997.61	913.67	2997.52
H-07b2	CUL	3164.40	4/3/01	12:34	166.40	0.00	166.40	50.72	2998.00	913.79	2997.91
H-07b2	CUL	3164.40	5/7/01	10:32	166.66	0.00	166.66	50.80	2997.74	913.71	2997.65
H-07b2	CUL	3164.40	6/4/01	11:40	166.36	0.00	166.36	50.71	2998.04	913.80	2997.95
H-07b2	CUL	3164.40	7/9/01	09:49	166.68	0.00	166.68	50.80	2997.72	913.71	2997.63
H-07b2	CUL	3164.40	8/6/01	11:28	166.84	0.00	166.84	50.85	2997.56	913.66	2997.47
H-07b2	CUL	3164.40	9/5/01	07:53	166.80	0.00	166.80	50.84	2997.60	913.67	2997.51
H-07b2	CUL	3164.40	10/8/01	10:21	166.80	0.00	166.80	50.84	2997.60	913.67	2997.51
H-07b2	CUL	3164.40	11/12/01	15:22	166.80	0.00	166.80	50.84	2997.60	913.67	2997.51
H-07b2	CUL	3164.40	12/3/01	08:24	166.86	0.00	166.86	50.86	2997.54	913.65	2997.45
H-08a	MAG	3432.99	1/10/01	09:45	405.95	0.00	405.95	123.73	3027.04	922.64	
H-08a	MAG	3432.99	2/7/01	08:53	406.05	0.00	406.05	123.76	3026.94	922.61	
H-08a	MAG	3432.99	3/5/01	11:06	405.90	0.00	405.90	123.72	3027.09	922.66	
H-08a	MAG	3432.99	4/3/01	13:35	405.88	0.00	405.88	123.71	3027.11	922.66	
H-08a	MAG	3432.99	5/7/01	11:01	405.88	0.00	405.88	123.71	3027.11	922.66	
H-08a	MAG	3432.99	6/7/01	08:48	405.89	0.00	405.89	123.72	3027.10	922.66	
H-08a	MAG	3432.99	7/10/01	13:15	405.96	0.00	405.96	123.74	3027.03	922.64	
H-08a	MAG	3432.99	8/6/01	12:25	405.99	0.00	405.99	123.75	3027.00	922.63	
H-08a	MAG	3432.99	9/5/01	08:35	406.04	0.00	406.04	123.76	3026.95	922.61	
H-08a	MAG	3432.99	10/9/01	07:46	406.11	0.00	406.11	123.78	3026.88	922.59	
H-08a	MAG	3432.99	11/13/01	09:55	406.15	0.00	406.15	123.79	3026.84	922.58	

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
H-08a	MAG	3432.99	12/4/01	08:20	406.16	0.00	406.16	123.80	3026.83	922.58	
H-08c	RUS/SAL	3432.90	1/10/01	09:50	453.79	0.00	453.79	138.32	2979.11	908.03	
H-08c	RUS/SAL	3432.90	2/7/01	09:00	453.88	0.00	453.88	138.34	2979.02	908.01	
H-08c	RUS/SAL	3432.90	3/5/01	11:11	453.73	0.00	453.73	138.30	2979.17	908.05	
H-08c	RUS/SAL	3432.90	4/3/01	13:45	453.79	0.00	453.79	138.32	2979.11	908.03	
H-08c	RUS/SAL	3432.90	5/7/01	11:06	453.65	0.00	453.65	138.27	2979.25	908.08	
H-08c	RUS/SAL	3432.90	6/7/01	09:05	453.62	0.00	453.62	138.26	2979.28	908.08	
H-08c	RUS/SAL	3432.90	7/10/01	13:25	453.60	0.00	453.60	138.26	2979.30	908.09	
H-08c	RUS/SAL	3432.90	8/6/01	12:33	453.61	0.00	453.61	138.26	2979.29	908.09	
H-08c	RUS/SAL	3432.90	9/5/01	08:45	453.65	0.00	453.65	138.27	2979.25	908.08	
H-08c	RUS/SAL	3432.90	10/9/01	08:00	453.55	0.00	453.55	138.24	2979.35	908.11	
H-08c	RUS/SAL	3432.90	11/13/01	10:01	453.67	0.00	453.67	138.28	2979.23	908.07	
H-08c	RUS/SAL	3432.90	12/4/01	08:28	453.68	0.00	453.68	138.28	2979.22	908.07	
H-09a	CUL	3406.68	3/5/01	10:42	415.35	0.54	414.81	126.43	2991.87	911.92	2992.12
H-09a	CUL	3406.68	6/6/01	14:38	414.73	0.54	414.19	126.25	2992.49	912.11	2992.74
H-09a	CUL	3406.68	9/5/01	09:55	416.08	0.54	415.54	126.66	2991.14	911.70	2991.39
H-09a	CUL	3406.68	12/4/01	07:57	414.23	0.00	414.23	126.26	2992.45	912.10	2992.70
H-09b	CUL	3406.86	1/10/01	10:11	415.96	0.00	415.96	126.78	2990.90	911.63	2991.15
H-09b	CUL	3406.86	2/7/01	09:23	415.05	0.00	415.05	126.51	2991.81	911.90	2992.06
H-09b	CUL	3406.86	3/5/01	10:28	414.67	0.00	414.67	126.39	2992.19	912.02	2992.44
H-09b	CUL	3406.86	4/3/01	14:10	413.91	0.00	413.91	126.16	2992.95	912.25	2993.20
H-09b	CUL	3406.86	5/7/01	13:25	413.87	0.00	413.87	126.15	2992.99	912.26	2993.24
H-09b	CUL	3406.86	6/6/01	14:26	414.04	0.00	414.04	126.20	2992.82	912.21	2993.07
H-09b	CUL	3406.86	7/10/01	13:45	415.47	0.00	415.47	126.64	2991.39	911.78	2991.64
H-09b	CUL	3406.86	8/6/01	13:11	415.75	0.00	415.75	126.72	2991.11	911.69	2991.36
H-09b	CUL	3406.86	9/5/01	09:45	415.39	0.00	415.39	126.61	2991.47	911.80	2991.72
H-09b	CUL	3406.86	10/9/01	08:35	414.83	0.00	414.83	126.44	2992.03	911.97	2992.28
H-09b	CUL	3406.86	11/13/01	10:27	416.27	0.00	416.27	126.88	2990.59	911.53	2990.84
H-09b	CUL	3406.86	12/4/01	07:49	415.55	0.00	415.55	126.66	2991.31	911.75	2991.56
H-09c	CUL	3407.30	3/5/01	10:36	415.57	0.00	415.57	126.67	2991.73	911.88	2991.98
H-09c	CUL	3407.30	6/6/01	14:15	414.96	0.00	414.96	126.48	2992.34	912.07	2992.59
H-09c	CUL	3407.30	9/5/01	09:35	416.30	0.00	416.30	126.89	2991.00	911.66	2991.25
H-09c	CUL	3407.30	12/4/01	07:36	414.92	0.00	414.92	126.47	2992.38	912.08	2992.63
H-10a	MAG	3688.67	1/10/01	10:42	528.39	0.00	528.39	161.05	3160.28	963.25	
H-10a	MAG	3688.67	2/7/01	10:00	528.41	0.00	528.41	161.06	3160.26	963.25	
H-10a	MAG	3688.67	3/7/01	10:02	528.08	0.00	528.08	160.96	3160.59	963.35	
H-10a	MAG	3688.67	4/4/01	09:04	527.92	0.00	527.92	160.91	3160.75	963.40	

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
H-10a	MAG	3688.67	5/7/01	14:15	527.85	0.00	527.85	160.89	3160.82	963.42	
H-10a	MAG	3688.67	6/6/01	13:30	527.49	0.00	527.49	160.78	3161.18	963.53	
H-10a	MAG	3688.67	7/11/01	13:15	526.91	0.00	526.91	160.60	3161.76	963.70	
H-10a	MAG	3688.67	8/6/01	14:18	526.63	0.00	526.63	160.52	3162.04	963.79	
H-10a	MAG	3688.67	9/5/01	12:20	526.54	0.00	526.54	160.49	3162.13	963.82	
H-10a	MAG	3688.67	10/9/01	09:56	526.51	0.00	526.51	160.48	3162.16	963.83	
H-10a	MAG	3688.67	11/13/01	11:10	526.59	0.00	526.59	160.50	3162.08	963.80	
H-10a	MAG	3688.67	12/4/01	09:24	526.49	0.00	526.49	160.47	3162.18	963.83	
H-10b	CUL	3689.47	1/10/01	10:53	694.60	0.00	694.60	211.71	2994.87	912.84	3026.99
H-10b	CUL	3689.47	2/7/01	10:12	694.57	0.00	694.57	211.70	2994.90	912.85	3027.02
H-10b	CUL	3689.47	3/7/01	10:08	694.64	0.00	694.64	211.73	2994.83	912.82	3026.95
H-10b	CUL	3689.47	4/4/01	09:20	694.49	0.00	694.49	211.68	2994.98	912.87	3027.10
H-10b	CUL	3689.47	5/7/01	14:22	694.44	0.00	694.44	211.67	2995.03	912.89	3027.16
H-10b	CUL	3689.47	6/6/01	13:37	694.07	0.00	694.07	211.55	2995.40	913.00	3027.54
H-10b	CUL	3689.47	7/11/01	13:25	694.22	0.00	694.22	211.60	2995.25	912.95	3027.39
H-10b	CUL	3689.47	8/6/01	13:56	694.30	0.00	694.30	211.62	2995.17	912.93	3027.30
H-10b	CUL	3689.47	9/5/01	12:30	694.46	0.00	694.46	211.67	2995.01	912.88	3027.13
H-10b	CUL	3689.47	10/9/01	10:09	694.60	0.00	694.60	211.71	2994.87	912.84	3026.99
H-10b	CUL	3689.47	11/13/01	11:18	694.80	0.00	694.80	211.78	2994.67	912.78	3026.78
H-10b	CUL	3689.47	12/4/01	09:33	694.77	0.00	694.77	211.77	2994.70	912.78	3026.81
H-11b1	CUL	3411.62	3/7/01	10:56	431.05	0.00	431.05	131.38	2980.57	908.48	3003.70
H-11b1	CUL	3411.62	6/6/01	10:43	430.42	0.00	430.42	131.19	2981.20	908.67	3004.38
H-11b1	CUL	3411.62	9/5/01	13:42	430.30	0.00	430.30	131.16	2981.32	908.71	3004.50
H-11b1	CUL	3411.62	12/3/01	10:38	430.39	0.00	430.39	131.18	2981.23	908.68	3004.41
H-11b2	CUL	3411.64	3/5/01	13:09	431.59	0.00	431.59	131.55	2980.05	908.32	3003.90
H-11b2	MAG	3411.64	6/6/01	10:55	284.24	0.00	284.24	86.64	3127.40	953.23	
H-11b2	MAG	3411.64	7/10/01	10:24	284.16	0.00	284.16	86.61	3127.48	953.26	
H-11b2	MAG	3411.64	9/11/01	09:20	284.30	0.00	284.30	86.65	3127.34	953.21	
H-11b2	MAG	3411.64	10/3/01	13:10	284.12	0.00	284.12	86.60	3127.52	953.27	
H-11b2	MAG	3411.64	11/12/01	10:10	284.16	0.00	284.16	86.61	3127.48	953.26	
H-11b2	MAG	3411.64	12/3/01	10:22	284.05	0.00	284.05	86.58	3127.59	953.29	
H-11b3	CUL	3412.42	3/7/01	11:01	432.21	0.00	432.21	131.74	2980.21	908.37	3005.07
H-11b3	CUL	3412.42	6/6/01	11:00	431.56	0.00	431.56	131.54	2980.86	908.57	3005.77
H-11b3	CUL	3412.42	9/5/01	13:50	431.73	0.00	431.73	131.59	2980.69	908.51	3005.59
H-11b3	CUL	3412.42	12/3/01	10:44	431.55	0.00	431.55	131.54	2980.87	908.57	3005.78
H-11b4	CUL	3410.89	1/10/01	13:03	427.12	0.00	427.12	130.19	2983.77	909.45	3003.82
H-11b4	CUL	3410.89	2/5/01	13:13	427.07	0.00	427.07	130.17	2983.82	909.47	3003.87

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
H-11b4	CUL	3410.89	3/7/01	10:51	426.91	0.00	426.91	130.12	2983.98	909.52	3004.04
H-11b4	CUL	3410.89	4/5/01	08:49	426.56	0.00	426.56	130.02	2984.33	909.62	3004.41
H-11b4	CUL	3410.89	5/9/01	10:42	426.46	0.00	426.46	129.99	2984.43	909.65	3004.52
H-11b4	CUL	3410.89	6/6/01	10:38	426.25	0.00	426.25	129.92	2984.64	909.72	3004.74
H-11b4	CUL	3410.89	7/10/01	10:15	426.22	0.00	426.22	129.91	2984.67	909.73	3004.78
H-11b4	CUL	3410.89	8/7/01	08:14	426.50	0.00	426.50	130.00	2984.39	909.64	3004.48
H-11b4	CUL	3410.89	9/5/01	13:40	426.42	0.00	426.42	129.97	2984.47	909.67	3004.56
H-11b4	CUL	3410.89	10/9/01	11:37	426.25	0.00	426.25	129.92	2984.64	909.72	3004.74
H-11b4	CUL	3410.89	11/12/01	10:22	426.41	0.00	426.41	129.97	2984.48	909.67	3004.57
H-11b4	CUL	3410.89	12/3/01	10:32	426.24	0.00	426.24	129.92	2984.65	909.72	3004.75
H-12	CUL	3427.19	1/10/01	11:32	458.05	0.00	458.05	139.61	2969.14	904.99	3006.35
H-12	CUL	3427.19	2/7/01	10:40	458.03	0.00	458.03	139.61	2969.16	905.00	3006.37
H-12	CUL	3427.19	3/7/01	09:26	458.02	0.00	458.02	139.60	2969.17	905.00	3006.38
H-12	CUL	3427.19	4/4/01	10:19	457.80	0.00	457.80	139.54	2969.39	905.07	3006.62
H-12	CUL	3427.19	5/7/01	15:03	457.81	0.00	457.81	139.54	2969.38	905.07	3006.61
H-12	CUL	3427.19	6/6/01	12:54	457.56	0.00	457.56	139.46	2969.63	905.14	3006.88
H-12	CUL	3427.19	7/10/01	09:45	457.63	0.00	457.63	139.49	2969.56	905.12	3006.81
H-12	CUL	3427.19	8/7/01	07:47	457.70	0.00	457.70	139.51	2969.49	905.10	3006.73
H-12	CUL	3427.19	9/5/01	13:05	456.64	0.00	456.64	139.18	2970.55	905.42	3007.89
H-12	CUL	3427.19	10/9/01	11:03	457.61	0.00	457.61	139.48	2969.58	905.13	3006.83
H-12	CUL	3427.19	11/13/01	13:46	457.64	0.00	457.64	139.49	2969.55	905.12	3006.80
H-12	CUL	3427.19	12/4/01	10:13	457.56	0.00	457.56	139.46	2969.63	905.14	3006.88
H-14	CUL	3347.11	1/10/01	14:31	337.58	0.00	337.58	102.89	3009.53	917.30	3012.41
H-14	CUL	3347.11	2/5/01	10:56	337.71	0.00	337.71	102.93	3009.40	917.27	3012.28
H-14	CUL	3347.11	3/8/01	08:25	337.48	0.00	337.48	102.86	3009.63	917.34	3012.51
H-14	MAG	3347.11	4/5/01	14:07	240.12	0.00	240.12	73.19	3106.99	947.01	
H-14	MAG	3347.11	5/9/01	08:13	312.04	0.00	312.04	95.11	3035.07	925.09	
H-14	MAG	3347.11	6/6/01	09:10	297.80	0.00	297.80	90.77	3049.31	929.43	
H-14	MAG	3347.11	7/11/01	08:37	281.79	0.00	281.79	85.89	3065.32	934.31	
H-14	MAG	3347.11	9/12/01	07:15	256.72	0.00	256.72	78.25	3090.39	941.95	
H-14	MAG	3347.11	10/3/01	13:00	251.11	0.00	251.11	76.54	3096.00	943.66	
H-14	MAG	3347.11	11/12/01	13:53	245.25	0.00	245.25	74.75	3101.86	945.45	
H-14	MAG	3347.11	12/3/01	12:29	244.64	0.00	244.64	74.57	3102.47	945.63	
H-15	CUL	3481.63	1/9/01	12:53	519.62	0.00	519.62	158.38	2962.01	902.82	3015.22
H-15	CUL	3481.63	2/5/01	10:20	519.73	0.00	519.73	158.41	2961.90	902.79	3015.10
H-15	CUL	3481.63	3/5/01	09:53	519.41	0.00	519.41	158.32	2962.22	902.88	3015.47
H-15	MAG	3481.63	4/6/01	07:50	382.94	0.00	382.94	116.72	3098.69	944.48	

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
H-15	MAG	3481.63	5/8/01	07:07	369.42	0.00	369.42	112.60	3112.21	948.60	
H-15	MAG	3481.63	6/7/01	11:21	369.04	0.00	369.04	112.48	3112.59	948.72	
H-15	MAG	3481.63	7/11/01	07:45	368.59	0.00	368.59	112.35	3113.04	948.85	
H-15	MAG	3481.63	9/12/01	06:45	368.77	0.00	368.77	112.40	3112.86	948.80	
H-15	MAG	3481.63	10/3/01	11:05	368.10	0.00	368.10	112.20	3113.53	949.00	
H-15	MAG	3481.63	11/12/01	13:20	368.68	0.00	368.68	112.37	3112.95	948.83	
H-15	MAG	3481.63	12/3/01	07:54	368.63	0.00	368.63	112.36	3113.00	948.84	
H-17	CUL	3385.31	1/10/01	12:14	424.46	0.00	424.46	129.38	2960.85	902.47	3009.89
H-17	CUL	3385.31	2/5/01	12:30	424.52	0.00	424.52	129.39	2960.79	902.45	3009.82
H-17	CUL	3385.31	3/7/01	11:19	424.19	0.00	424.19	129.29	2961.12	902.55	3010.21
H-17	CUL	3385.31	4/5/01	07:49	423.85	0.00	423.85	129.19	2961.46	902.65	3010.60
H-17	CUL	3385.31	5/9/01	09:55	423.79	0.00	423.79	129.17	2961.52	902.67	3010.67
H-17	CUL	3385.31	6/6/01	11:40	423.41	0.00	423.41	129.06	2961.90	902.79	3011.12
H-17	CUL	3385.31	7/11/01	09:44	423.41	0.00	423.41	129.06	2961.90	902.79	3011.12
H-17	CUL	3385.31	8/7/01	08:28	423.57	0.00	423.57	129.10	2961.74	902.74	3010.93
H-17	CUL	3385.31	9/5/01	13:58	423.54	0.00	423.54	129.09	2961.77	902.75	3010.96
H-17	CUL	3385.31	10/9/01	11:53	423.59	0.00	423.59	129.11	2961.72	902.73	3010.91
H-17	CUL	3385.31	11/13/01	14:16	423.44	0.00	423.44	129.06	2961.87	902.78	3011.08
H-17	CUL	3385.31	12/4/01	10:48	423.34	0.00	423.34	129.03	2961.97	902.81	3011.20
H-18	CUL	3414.21	1/9/01	09:32	354.55	0.00	354.55	108.07	3059.66	932.58	3074.93
H-18	CUL	3414.21	2/5/01	08:45	354.51	0.00	354.51	108.05	3059.70	932.60	3074.97
H-18	CUL	3414.21	3/6/01	11:10	354.60	0.00	354.60	108.08	3059.61	932.57	3074.88
H-18	MAG	3414.21	4/4/01	14:40	474.48	0.00	474.48	144.62	2939.73	896.03	
H-18	MAG	3414.21	5/8/01	11:30	335.62	0.00	335.62	102.30	3078.59	938.35	
H-18	MAG	3414.21	6/5/01	12:00	335.79	0.00	335.79	102.35	3078.42	938.30	
H-18	MAG	3414.21	7/9/01	08:29	336.09	0.00	336.09	102.44	3078.12	938.21	
H-18	MAG	3414.21	9/12/01	08:10	336.87	0.00	336.87	102.68	3077.34	937.97	
H-18	MAG	3414.21	10/3/01	09:10	336.85	0.00	336.85	102.67	3077.36	937.98	
H-18	MAG	3414.21	11/12/01	14:10	337.04	0.00	337.04	102.73	3077.17	937.92	
H-18	MAG	3414.21	12/3/01	12:29	336.96	0.00	336.96	102.71	3077.25	937.95	
H-19b0	CUL	3418.38	1/10/01	13:49	429.38	0.00	429.38	130.88	2989.00	911.05	3010.72
H-19b0	CUL	3418.38	2/6/01	14:45	429.35	0.00	429.35	130.87	2989.03	911.06	3010.75
H-19b0	CUL	3418.38	3/8/01	07:56	429.04	0.00	429.04	130.77	2989.34	911.15	3011.08
H-19b0	CUL	3418.38	4/5/01	09:16	428.98	0.00	428.98	130.75	2989.40	911.17	3011.14
H-19b0	CUL	3418.38	5/9/01	09:17	429.40	0.00	429.40	130.88	2988.98	911.04	3010.70
H-19b0	CUL	3418.38	6/6/01	08:20	428.90	0.00	428.90	130.73	2989.48	911.19	3011.23
H-19b0	CUL	3418.38	7/11/01	08:05	428.67	0.00	428.67	130.66	2989.71	911.26	3011.48

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
H-19b0	CUL	3418.38	8/7/01	10:06	428.64	0.00	428.64	130.65	2989.74	911.27	3011.51
H-19b0	CUL	3418.38	9/7/01	08:20	428.33	0.00	428.33	130.55	2990.05	911.37	3011.84
H-19b0	CUL	3418.38	10/9/01	13:17	428.30	0.00	428.30	130.55	2990.08	911.38	3011.87
H-19b0	CUL	3418.38	11/13/01	14:59	428.66	0.00	428.66	130.66	2989.72	911.27	3011.49
H-19b0	CUL	3418.38	12/5/01	11:40	428.65	0.00	428.65	130.65	2989.73	911.27	3011.50
H-19b2	CUL	3419.01	3/8/01	08:16	430.33	0.00	430.33	131.16	2988.68	910.95	3010.48
H-19b2	CUL	3419.01	6/6/01	08:06	430.23	0.00	430.23	131.13	2988.78	910.98	3010.59
H-19b2	CUL	3419.01	9/7/01	08:03	429.63	0.00	429.63	130.95	2989.38	911.16	3011.23
H-19b2	CUL	3419.01	12/5/01	11:22	429.93	0.00	429.93	131.04	2989.08	911.07	3010.91
H-19b3	CUL	3419.09	3/8/01	08:37	430.55	0.00	430.55	131.23	2988.54	910.91	3010.23
H-19b3	CUL	3419.09	6/6/01	08:26	430.38	0.00	430.38	131.18	2988.71	910.96	3010.41
H-19b3	CUL	3419.09	9/7/01	12:55	429.83	0.00	429.83	131.01	2989.26	911.13	3011.00
H-19b3	CUL	3419.09	12/5/01	12:00	430.14	0.00	430.14	131.11	2988.95	911.03	3010.67
H-19b4	CUL	3419.03	3/8/01	08:21	429.78	0.00	429.78	131.00	2989.25	911.12	3010.84
H-19b4	CUL	3419.03	6/6/01	08:34	429.40	0.00	429.40	130.88	2989.63	911.24	3011.24
H-19b4	CUL	3419.03	9/7/01	08:26	429.08	0.00	429.08	130.78	2989.95	911.34	3011.58
H-19b4	CUL	3419.03	12/5/01	11:49	429.49	0.00	429.49	130.91	2989.54	911.21	3011.15
H-19b5	CUL	3418.63	3/8/01	08:11	429.94	0.00	429.94	131.05	2988.69	910.95	3010.18
H-19b5	CUL	3418.63	6/6/01	08:10	429.75	0.00	429.75	130.99	2988.88	911.01	3010.38
H-19b5	CUL	3418.63	9/7/01	08:15	429.24	0.00	429.24	130.83	2989.39	911.17	3010.93
H-19b5	CUL	3418.63	12/5/01	11:33	429.51	0.00	429.51	130.91	2989.12	911.08	3010.64
H-19b6	CUL	3419.07	3/8/01	08:28	430.43	0.00	430.43	131.20	2988.64	910.94	3010.27
H-19b6	CUL	3419.07	6/6/01	08:39	430.29	0.00	430.29	131.15	2988.78	910.98	3010.42
H-19b6	CUL	3419.07	9/7/01	13:02	429.71	0.00	429.71	130.98	2989.36	911.16	3011.04
H-19b6	CUL	3419.07	12/5/01	12:06	430.04	0.00	430.04	131.08	2989.03	911.06	3010.69
H-19b7	CUL	3418.99	3/8/01	08:06	430.57	0.00	430.57	131.24	2988.42	910.87	3010.08
H-19b7	CUL	3418.99	6/6/01	08:03	430.42	0.00	430.42	131.19	2988.57	910.92	3010.24
H-19b7	CUL	3418.99	9/7/01	08:05	429.89	0.00	429.89	131.03	2989.10	911.08	3010.80
H-19b7	CUL	3418.99	12/5/01	11:28	430.18	0.00	430.18	131.12	2988.81	910.99	3010.50
P-15	CUL	3311.38	1/8/01	12:14	295.55	0.00	295.55	90.08	3015.83	919.22	3016.61
P-15	CUL	3311.38	2/5/01	10:42	295.80	0.00	295.80	90.16	3015.58	919.15	3016.36
P-15	CUL	3311.38	3/8/01	09:42	295.35	0.00	295.35	90.02	3016.03	919.29	3016.81
P-15	CUL	3311.38	4/5/01	14:32	295.56	0.00	295.56	90.09	3015.82	919.22	3016.60
P-15	CUL	3311.38	5/8/01	14:24	295.79	0.00	295.79	90.16	3015.59	919.15	3016.37
P-15	CUL	3311.38	6/4/01	12:10	295.45	0.00	295.45	90.05	3015.93	919.26	3016.71
P-15	CUL	3311.38	7/11/01	09:20	295.69	0.00	295.69	90.13	3015.69	919.18	3016.47
P-15	CUL	3311.38	8/7/01	12:34	295.77	0.00	295.77	90.15	3015.61	919.16	3016.39

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
P-15	CUL	3311.38	9/5/01	11:20	295.78	0.00	295.78	90.15	3015.60	919.15	3016.38
P-15	CUL	3311.38	10/8/01	10:43	295.78	0.00	295.78	90.15	3015.60	919.15	3016.38
P-15	CUL	3311.38	11/12/01	08:57	295.90	0.00	295.90	90.19	3015.48	919.12	3016.26
P-15	CUL	3311.38	12/5/01	09:40	295.78	0.00	295.78	90.15	3015.60	919.15	3016.38
P-17	CUL	3337.24	1/10/01	12:29	355.06	0.54	354.52	108.06	2982.72	909.13	2996.85
P-17	CUL	3337.24	2/5/01	12:25	355.18	0.54	354.64	108.09	2982.60	909.10	2996.73
P-17	CUL	3337.24	3/7/01	11:36	354.94	0.54	354.40	108.02	2982.84	909.17	2996.98
P-17	CUL	3337.24	4/5/01	07:11	354.68	0.54	354.14	107.94	2983.10	909.25	2997.26
P-17	CUL	3337.24	5/9/01	10:09	354.61	0.54	354.07	107.92	2983.17	909.27	2997.33
P-17	CUL	3337.24	6/6/01	11:55	354.32	0.54	353.78	107.83	2983.46	909.36	2997.64
P-17	CUL	3337.24	7/11/01	10:05	354.31	0.54	353.77	107.83	2983.47	909.36	2997.65
P-17	CUL	3337.24	8/7/01	08:46	354.48	0.54	353.94	107.88	2983.30	909.31	2997.47
P-17	CUL	3337.24	9/5/01	14:15	354.54	0.54	354.00	107.90	2983.24	909.29	2997.41
P-17	CUL	3337.24	10/9/01	12:10	354.47	0.54	353.93	107.88	2983.31	909.31	2997.48
P-17	CUL	3337.24	11/12/01	09:40	354.53	0.54	353.99	107.90	2983.25	909.29	2997.42
P-17	CUL	3337.24	12/3/01	09:43	354.43	0.54	353.89	107.87	2983.35	909.33	2997.53
P-18	CUL	3478.42	1/10/01	11:51	316.48	0.68	315.80	96.26	3162.62	963.97	3234.14
P-18	CUL	3478.42	2/7/01	11:15	316.37	0.68	315.69	96.22	3162.73	964.00	3234.27
P-18	CUL	3478.42	3/7/01	09:11	316.17	0.68	315.49	96.16	3162.93	964.06	3234.49
P-18	CUL	3478.42	4/4/01	10:55	316.02	0.68	315.34	96.12	3163.08	964.11	3234.66
P-18	CUL	3478.42	5/7/01	15:24	315.86	0.68	315.18	96.07	3163.24	964.16	3234.84
P-18	CUL	3478.42	6/6/01	12:32	315.72	0.68	315.04	96.02	3163.38	964.20	3234.99
P-18	CUL	3478.42	7/10/01	10:03	315.60	0.68	314.92	95.99	3163.50	964.23	3235.13
P-18	CUL	3478.42	8/7/01	07:32	315.52	0.68	314.84	95.96	3163.58	964.26	3235.22
P-18	CUL	3478.42	9/5/01	13:25	315.38	0.68	314.70	95.92	3163.72	964.30	3235.37
P-18	CUL	3478.42	10/9/01	11:22	315.28	0.68	314.60	95.89	3163.82	964.33	3235.48
P-18	CUL	3478.42	11/13/01	14:02	315.15	0.68	314.47	95.85	3163.95	964.37	3235.63
P-18	CUL	3478.42	12/4/01	10:30	315.05	0.68	314.37	95.82	3164.05	964.40	3235.74
WIPP-12	CUL	3472.06	1/9/01	10:39	440.47	0.00	440.47	134.26	3031.59	924.03	3068.34
WIPP-12	CUL	3472.06	2/5/01	09:35	440.53	0.00	440.53	134.27	3031.53	924.01	3068.27
WIPP-12	CUL	3472.06	3/7/01	14:02	440.37	0.00	440.37	134.22	3031.69	924.06	3068.45
WIPP-12	CUL	3472.06	4/5/01	12:30	440.22	0.00	440.22	134.18	3031.84	924.10	3068.61
WIPP-12	CUL	3472.06	5/8/01	13:02	440.30	0.00	440.30	134.20	3031.76	924.08	3068.52
WIPP-12	CUL	3472.06	6/5/01	13:45	439.97	0.00	439.97	134.10	3032.09	924.18	3068.89
WIPP-12	CUL	3472.06	7/11/01	06:45	440.05	0.00	440.05	134.13	3032.01	924.16	3068.80
WIPP-12	CUL	3472.06	8/8/01	13:28	440.08	0.00	440.08	134.14	3031.98	924.15	3068.77
WIPP-12	CUL	3472.06	9/6/01	06:55	440.13	0.00	440.13	134.15	3031.93	924.13	3068.71

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
WIPP-12	CUL	3472.06	10/10/01	13:12	440.09	0.00	440.09	134.14	3031.97	924.14	3068.75
WIPP-12	CUL	3472.06	11/14/01	08:49	440.13	0.00	440.13	134.15	3031.93	924.13	3068.71
WIPP-12	CUL	3472.06	12/5/01	14:53	439.91	0.00	439.91	134.08	3032.15	924.20	3068.95
WIPP-13	CUL	3405.71	1/8/01	14:11	348.85	0.64	348.21	106.13	3057.50	931.93	3068.07
WIPP-13	CUL	3405.71	2/5/01	14:09	348.81	0.64	348.17	106.12	3057.54	931.94	3068.12
WIPP-13	CUL	3405.71	3/6/01	12:36	348.89	0.64	348.25	106.15	3057.46	931.91	3068.03
WIPP-13	CUL	3405.71	4/4/01	13:55	348.38	0.00	348.38	106.19	3057.33	931.87	3067.90
WIPP-13	CUL	3405.71	5/7/01	09:52	348.28	0.00	348.28	106.16	3057.43	931.90	3068.00
WIPP-13	CUL	3405.71	6/5/01	13:00	348.09	0.00	348.09	106.10	3057.62	931.96	3068.20
WIPP-13	CUL	3405.71	7/9/01	07:55	348.23	0.00	348.23	106.14	3057.48	931.92	3068.05
WIPP-13	CUL	3405.71	8/8/01	10:54	348.40	0.00	348.40	106.19	3057.31	931.87	3067.88
WIPP-13	CUL	3405.71	9/4/01	12:51	348.67	0.00	348.67	106.27	3057.04	931.79	3067.60
WIPP-13	CUL	3405.71	10/10/01	10:30	348.52	0.00	348.52	106.23	3057.19	931.83	3067.76
WIPP-13	CUL	3405.71	11/14/01	08:13	348.45	0.00	348.45	106.21	3057.26	931.85	3067.83
WIPP-13	CUL	3405.71	12/5/01	15:12	348.63	0.00	348.63	106.26	3057.08	931.80	3067.64
WIPP-18	CUL	3458.76	1/9/01	10:58	425.11	0.00	425.11	129.57	3033.65	924.66	3071.12
WIPP-18	CUL	3458.76	2/5/01	09:45	425.23	0.00	425.23	129.61	3033.53	924.62	3070.99
WIPP-18	CUL	3458.76	3/5/01	09:29	425.07	0.00	425.07	129.56	3033.69	924.67	3071.17
WIPP-18	MAG	3458.76	4/5/01	12:37	522.65	0.00	522.65	159.30	2936.11	894.93	
WIPP-18	MAG	3458.76	5/8/01	12:43	319.19	0.00	319.19	97.29	3139.57	956.94	
WIPP-18	MAG	3458.76	6/5/01	13:54	318.08	0.00	318.08	96.95	3140.68	957.28	
WIPP-18	MAG	3458.76	7/11/01	06:50	318.61	0.00	318.61	97.11	3140.15	957.12	
WIPP-18	MAG	3458.76	9/12/01	10:22:05	326.62	0.00	326.62	99.55	3132.14	954.68	
WIPP-18	MAG	3458.76	10/3/01	10:22:05	332.88	0.00	332.88	101.46	3125.88	952.77	
WIPP-18	MAG	3458.76	11/12/01	10:22:05	342.33	0.00	342.33	104.34	3116.43	949.89	
WIPP-18	MAG	3458.76	12/3/01	10:22:05	345.90	0.00	345.90	105.43	3112.86	948.80	
WIPP-19	CUL	3435.14	1/9/01	11:05	396.15	0.00	396.15	120.75	3038.99	926.28	3076.70
WIPP-19	CUL	3435.14	2/5/01	09:53	396.32	0.00	396.32	120.80	3038.82	926.23	3076.51
WIPP-19	CUL	3435.14	3/7/01	13:54	396.16	0.00	396.16	120.75	3038.98	926.28	3076.69
WIPP-19	CUL	3435.14	4/5/01	12:50	396.01	0.00	396.01	120.70	3039.13	926.33	3076.85
WIPP-19	CUL	3435.14	5/8/01	12:30	396.10	0.00	396.10	120.73	3039.04	926.30	3076.75
WIPP-19	CUL	3435.14	6/5/01	14:04	395.69	0.00	395.69	120.61	3039.45	926.42	3077.21
WIPP-19	CUL	3435.14	7/11/01	07:00	395.58	0.00	395.58	120.57	3039.56	926.46	3077.33
WIPP-19	CUL	3435.14	8/8/01	13:37	395.51	0.00	395.51	120.55	3039.63	926.48	3077.40
WIPP-19	CUL	3435.14	9/6/01	07:10	395.40	0.00	395.40	120.52	3039.74	926.51	3077.53
WIPP-19	CUL	3435.14	10/10/01	13:24	395.30	0.00	395.30	120.49	3039.84	926.54	3077.64
WIPP-19	CUL	3435.14	11/14/01	08:55	395.18	0.00	395.18	120.45	3039.96	926.58	3077.77

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
WIPP-19	CUL	3435.14	12/5/01	14:58	395.31	0.00	395.31	120.49	3039.83	926.54	3077.62
WIPP-21	CUL	3418.96	1/9/01	12:39	404.03	0.00	404.03	123.15	3014.93	918.95	3038.99
WIPP-21	CUL	3418.96	2/5/01	10:00	404.53	0.00	404.53	123.30	3014.43	918.80	3038.46
WIPP-21	CUL	3418.96	3/7/01	13:39	404.08	0.00	404.08	123.16	3014.88	918.94	3038.94
WIPP-21	CUL	3418.96	4/5/01	13:03	403.64	0.00	403.64	123.03	3015.32	919.07	3039.41
WIPP-21	CUL	3418.96	5/8/01	12:11	403.54	0.00	403.54	123.00	3015.42	919.10	3039.52
WIPP-21	CUL	3418.96	6/5/01	14:26	403.03	0.00	403.03	122.84	3015.93	919.26	3040.07
WIPP-21	CUL	3418.96	7/11/01	07:25	402.91	0.00	402.91	122.81	3016.05	919.29	3040.19
WIPP-21	CUL	3418.96	8/8/01	13:50	402.80	0.00	402.80	122.77	3016.16	919.33	3040.31
WIPP-21	CUL	3418.96	9/6/01	07:45	402.69	0.00	402.69	122.74	3016.27	919.36	3040.43
WIPP-21	CUL	3418.96	10/10/01	13:51	402.60	0.00	402.60	122.71	3016.36	919.39	3040.53
WIPP-21	CUL	3418.96	11/14/01	09:08	402.65	0.00	402.65	122.73	3016.31	919.37	3040.47
WIPP-21	CUL	3418.96	12/5/01	15:02	402.86	0.00	402.86	122.79	3016.10	919.31	3040.25
WIPP-22	CUL	3428.12	1/9/01	12:29	398.99	0.00	398.99	121.61	3029.13	923.28	3060.11
WIPP-22	CUL	3428.12	2/5/01	09:56	399.28	0.00	399.28	121.70	3028.84	923.19	3059.80
WIPP-22	CUL	3428.12	3/7/01	13:43	399.04	0.00	399.04	121.63	3029.08	923.26	3060.06
WIPP-22	CUL	3428.12	4/5/01	12:58	398.80	0.00	398.80	121.55	3029.32	923.34	3060.32
WIPP-22	CUL	3428.12	5/8/01	12:22	398.80	0.00	398.80	121.55	3029.32	923.34	3060.32
WIPP-22	CUL	3428.12	6/5/01	14:15	398.35	0.00	398.35	121.42	3029.77	923.47	3060.81
WIPP-22	CUL	3428.12	7/11/01	07:09	398.27	0.00	398.27	121.39	3029.85	923.50	3060.90
WIPP-22	CUL	3428.12	8/8/01	13:43	398.20	0.00	398.20	121.37	3029.92	923.52	3060.97
WIPP-22	CUL	3428.12	9/6/01	07:34	398.07	0.00	398.07	121.33	3030.05	923.56	3061.11
WIPP-22	CUL	3428.12	10/10/01	13:36	397.96	0.00	397.96	121.30	3030.16	923.59	3061.23
WIPP-22	CUL	3428.12	11/14/01	09:01	397.90	0.00	397.90	121.28	3030.22	923.61	3061.30
WIPP-22	CUL	3428.12	12/5/01	15:07	398.00	0.00	398.00	121.31	3030.12	923.58	3061.19
WIPP-25 (ANNULUS)	MAG	3214.39	1/8/01	12:59	165.62	0.00	165.62	50.48	3048.77	929.27	
WIPP-25 (ANNULUS)	MAG	3214.39	2/5/01	09:46	165.69	0.00	165.69	50.50	3048.70	929.24	
WIPP-25 (ANNULUS)	MAG	3214.39	3/6/01	10:12	164.79	0.00	164.79	50.23	3049.60	929.52	
WIPP-25 (ANNULUS)	MAG	3214.39	4/3/01	11:33	164.37	0.00	164.37	50.10	3050.02	929.65	
WIPP-25 (ANNULUS)	MAG	3214.39	5/7/01	08:56	164.11	0.00	164.11	50.02	3050.28	929.73	
WIPP-25 (ANNULUS)	MAG	3214.39	6/5/01	11:00	163.87	0.00	163.87	49.95	3050.52	929.80	
WIPP-25 (ANNULUS)	MAG	3214.39	7/9/01	14:15	163.70	0.00	163.70	49.90	3050.69	929.85	
WIPP-25 (ANNULUS)	MAG	3214.39	8/8/01	09:21	163.60	0.00	163.60	49.87	3050.79	929.88	
WIPP-25 (ANNULUS)	MAG	3214.39	9/4/01	11:45	163.54	0.00	163.54	49.85	3050.85	929.90	
WIPP-25 (ANNULUS)	MAG	3214.39	10/8/01	09:04	163.62	0.00	163.62	49.87	3050.77	929.87	
WIPP-25 (ANNULUS)	MAG	3214.39	11/13/01	08:13	163.84	0.00	163.84	49.94	3050.55	929.81	
WIPP-25 (ANNULUS)	MAG	3214.39	12/4/01	14:00	163.85	0.00	163.85	49.94	3050.54	929.80	

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
WIPP-25 (PIP)	CUL	3214.39	1/8/01	12:55	156.75	0.42	156.33	47.65	3058.06	932.10	3055.01
WIPP-25 (PIP)	CUL	3214.39	2/5/01	09:37	156.18	0.42	155.76	47.48	3058.63	932.27	3055.57
WIPP-25 (PIP)	CUL	3214.39	3/6/01	10:09	155.85	0.42	155.43	47.38	3058.96	932.37	3055.90
WIPP-25 (PIP)	CUL	3214.39	4/3/01	11:30	155.44	0.42	155.02	47.25	3059.37	932.50	3056.31
WIPP-25 (PIP)	CUL	3214.39	5/7/01	08:53	155.35	0.42	154.93	47.22	3059.46	932.52	3056.40
WIPP-25 (PIP)	CUL	3214.39	6/5/01	10:55	155.21	0.42	154.79	47.18	3059.60	932.57	3056.53
WIPP-25 (PIP)	CUL	3214.39	7/9/01	14:10	154.96	0.42	154.54	47.10	3059.85	932.64	3056.78
WIPP-25 (PIP)	CUL	3214.39	8/8/01	09:16	154.90	0.42	154.48	47.09	3059.91	932.66	3056.84
WIPP-25 (PIP)	CUL	3214.39	9/4/01	11:40	154.95	0.42	154.53	47.10	3059.86	932.65	3056.79
WIPP-25 (PIP)	CUL	3214.39	10/8/01	09:02	154.79	0.42	154.37	47.05	3060.02	932.69	3056.95
WIPP-25 (PIP)	CUL	3214.39	11/13/01	08:10	154.70	0.42	154.28	47.02	3060.11	932.72	3057.04
WIPP-25 (PIP)	CUL	3214.39	12/4/01	13:53	154.38	0.42	153.96	46.93	3060.43	932.82	3057.36
WIPP-26	CUL	3153.20	1/8/01	10:52	131.45	0.00	131.45	40.07	3021.75	921.03	3021.89
WIPP-26	CUL	3153.20	2/7/01	07:43	131.37	0.00	131.37	40.04	3021.83	921.05	3021.97
WIPP-26	CUL	3153.20	3/6/01	09:35	131.56	0.00	131.56	40.10	3021.64	921.00	3021.77
WIPP-26	CUL	3153.20	4/3/01	12:08	131.15	0.00	131.15	39.97	3022.05	921.12	3022.19
WIPP-26	CUL	3153.20	5/7/01	09:39	131.25	0.00	131.25	40.01	3021.95	921.09	3022.09
WIPP-26	CUL	3153.20	6/4/01	11:11	132.00	0.00	132.00	40.23	3021.20	920.86	3021.33
WIPP-26	CUL	3153.20	7/9/01	10:20	131.41	0.00	131.41	40.05	3021.79	921.04	3021.93
WIPP-26	CUL	3153.20	8/6/01	11:06	131.80	0.00	131.80	40.17	3021.40	920.92	3021.53
WIPP-26	CUL	3153.20	9/5/01	07:15	132.63	0.00	132.63	40.43	3020.57	920.67	3020.70
WIPP-26	CUL	3153.20	10/8/01	09:39	131.79	0.00	131.79	40.17	3021.41	920.93	3021.54
WIPP-26	CUL	3153.20	11/13/01	08:48	131.06	0.00	131.06	39.95	3022.14	921.15	3022.28
WIPP-26	CUL	3153.20	12/5/01	09:02	131.80	0.00	131.80	40.17	3021.40	920.92	3021.53
WIPP-27 (PIP)	CUL	3178.98	1/8/01	09:44	98.26	0.42	97.84	29.82	3081.14	939.13	3087.20
WIPP-27 (PIP)	CUL	3178.98	2/6/01	10:28	98.38	0.42	97.96	29.86	3081.02	939.09	3087.08
WIPP-27 (PIP)	CUL	3178.98	3/6/01	07:36	98.53	0.42	98.11	29.90	3080.87	939.05	3086.92
WIPP-27 (PIP)	CUL	3178.98	4/3/01	10:25	98.57	0.42	98.15	29.92	3080.83	939.04	3086.88
WIPP-27 (PIP)	CUL	3178.98	5/7/01	07:49	98.75	0.42	98.33	29.97	3080.65	938.98	3086.70
WIPP-27 (PIP)	CUL	3178.98	6/4/01	09:05	98.60	0.42	98.18	29.93	3080.80	939.03	3086.85
WIPP-27 (PIP)	CUL	3178.98	7/9/01	13:25	98.96	0.42	98.54	30.03	3080.44	938.92	3086.48
WIPP-27 (PIP)	CUL	3178.98	8/6/01	10:02	99.27	0.42	98.85	30.13	3080.13	938.82	3086.16
WIPP-27 (PIP)	CUL	3178.98	9/4/01	10:35	99.23	0.42	98.81	30.12	3080.17	938.84	3086.20
WIPP-27 (PIP)	CUL	3178.98	10/8/01	08:05	98.59	0.42	98.17	29.92	3080.81	939.03	3086.86
WIPP-27 (PIP)	CUL	3178.98	11/13/01	07:27	97.95	0.42	97.53	29.73	3081.45	939.23	3087.52
WIPP-27 (PIP)	CUL	3178.98	12/4/01	13:19	97.30	0.42	96.88	29.53	3082.10	939.42	3088.19
WIPP-29	CUL	2978.26	1/8/01	10:29	11.09	0.00	11.09	3.38	2967.17	904.39	2970.36

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
WIPP-29	CUL	2978.26	2/7/01	07:20	11.00	0.00	11.00	3.35	2967.26	904.42	2970.46
WIPP-29	CUL	2978.26	3/6/01	09:11	11.03	0.00	11.03	3.36	2967.23	904.41	2970.43
WIPP-29	CUL	2978.26	4/4/01	07:02	11.15	0.00	11.15	3.40	2967.11	904.38	2970.28
WIPP-29	CUL	2978.26	5/7/01	10:05	11.20	0.00	11.20	3.41	2967.06	904.36	2970.23
WIPP-29	CUL	2978.26	6/4/01	10:47	11.35	0.00	11.35	3.46	2966.91	904.31	2970.05
WIPP-29	CUL	2978.26	7/9/01	10:45	11.66	0.00	11.66	3.55	2966.60	904.22	2969.68
WIPP-29	CUL	2978.26	8/6/01	10:42	11.25	0.00	11.25	3.43	2967.01	904.34	2970.17
WIPP-29	CUL	2978.26	9/4/01	09:45	11.40	0.00	11.40	3.47	2966.86	904.30	2969.99
WIPP-29	CUL	2978.26	10/8/01	07:09	11.33	0.00	11.33	3.45	2966.93	904.32	2970.07
WIPP-29	CUL	2978.26	11/13/01	09:19	11.51	0.00	11.51	3.51	2966.75	904.27	2969.86
WIPP-29	CUL	2978.26	12/4/01	14:36	11.20	0.00	11.20	3.41	2967.06	904.36	2970.23
WIPP-30 (ANNULLUS)	MAG	3429.05	1/8/01	13:39	335.84	2.08	333.76	101.73	3095.29	943.44	
WIPP-30 (ANNULLUS)	MAG	3429.05	2/6/01	11:35	333.44	2.08	331.36	101.00	3097.69	944.18	
WIPP-30 (ANNULLUS)	MAG	3429.05	3/6/01	13:35	331.70	2.08	329.62	100.47	3099.43	944.71	
WIPP-30 (ANNULLUS)	MAG	3429.05	4/4/01	13:00	330.80	2.08	328.72	100.19	3100.33	944.98	
WIPP-30 (ANNULLUS)	MAG	3429.05	5/8/01	08:48	329.03	2.08	326.95	99.65	3102.10	945.52	
WIPP-30 (ANNULLUS)	MAG	3429.05	6/5/01	09:26	326.86	2.08	324.78	98.99	3104.27	946.18	
WIPP-30 (ANNULLUS)	MAG	3429.05	7/10/01	08:05	324.85	2.08	322.77	98.38	3106.28	946.79	
WIPP-30 (ANNULLUS)	MAG	3429.05	8/8/01	10:36	321.90	0.00	321.90	98.12	3107.15	947.06	
WIPP-30 (ANNULLUS)	MAG	3429.05	9/4/01	12:25	321.55	0.00	321.55	98.01	3107.50	947.17	
WIPP-30 (ANNULLUS)	MAG	3429.05	10/10/01	10:00	320.65	0.00	320.65	97.73	3108.40	947.44	
WIPP-30 (ANNULLUS)	MAG	3429.05	11/12/01	11:46	319.91	0.00	319.91	97.51	3109.14	947.67	
WIPP-30 (ANNULLUS)	MAG	3429.05	12/3/01	11:56	318.37	0.00	318.37	97.04	3110.68	948.14	
WIPP-30 (PIP)	CUL	3429.05	1/8/01	13:31	369.15	2.08	367.07	111.88	3061.98	933.29	3068.89
WIPP-30 (PIP)	CUL	3429.05	2/6/01	11:30	368.15	2.08	366.07	111.58	3062.98	933.60	3069.92
WIPP-30 (PIP)	CUL	3429.05	3/6/01	13:24	367.20	2.08	365.12	111.29	3063.93	933.89	3070.89
WIPP-30 (PIP)	CUL	3429.05	4/4/01	12:50	366.19	2.08	364.11	110.98	3064.94	934.19	3071.93
WIPP-30 (PIP)	CUL	3429.05	5/8/01	08:54	365.41	2.08	363.33	110.74	3065.72	934.43	3072.73
WIPP-30 (PIP)	CUL	3429.05	6/5/01	09:28	364.54	2.08	362.46	110.48	3066.59	934.70	3073.62
WIPP-30 (PIP)	CUL	3429.05	7/10/01	08:00	364.37	2.08	362.29	110.43	3066.76	934.75	3073.79
WIPP-30 (PIP)	CUL	3429.05	8/8/01	10:19	363.13	0.70	362.43	110.47	3066.62	934.71	3073.65
WIPP-30 (PIP)	CUL	3429.05	9/4/01	12:30	362.63	0.70	361.93	110.32	3067.12	934.86	3074.16
WIPP-30 (PIP)	CUL	3429.05	10/10/01	09:52	362.34	0.70	361.64	110.23	3067.41	934.95	3074.46
WIPP-30 (PIP)	CUL	3429.05	11/12/01	11:40	362.18	0.70	361.48	110.18	3067.57	935.00	3074.62
WIPP-30 (PIP)	CUL	3429.05	12/3/01	11:52	361.90	0.70	361.20	110.09	3067.85	935.08	3074.91
WQSP-1	CUL	3419.20	1/9/01	09:21	366.36	0.16	366.20	111.62	3053.00	930.55	3069.65
WQSP-1	CUL	3419.20	2/6/01	08:37	366.27	0.16	366.11	111.59	3053.09	930.58	3069.75

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
WQSP-1	CUL	3419.20	3/6/01	11:20	366.26	0.16	366.10	111.59	3053.10	930.58	3069.76
WQSP-1	CUL	3419.20	4/5/01	11:14	366.27	0.16	366.11	111.59	3053.09	930.58	3069.75
WQSP-1	CUL	3419.20	5/8/01	11:19	365.95	0.16	365.79	111.49	3053.41	930.68	3070.08
WQSP-1	CUL	3419.20	6/5/01	12:10	365.68	0.16	365.52	111.41	3053.68	930.76	3070.36
WQSP-1	CUL	3419.20	7/9/01	08:20	365.71	0.16	365.55	111.42	3053.65	930.75	3070.33
WQSP-1	CUL	3419.20	8/7/01	14:36	365.88	0.16	365.72	111.47	3053.48	930.70	3070.15
WQSP-1	CUL	3419.20	9/4/01	06:35	365.82	0.16	365.66	111.45	3053.54	930.72	3070.22
WQSP-1	CUL	3419.20	10/10/01	10:42	365.78	0.16	365.62	111.44	3053.58	930.73	3070.26
WQSP-1	CUL	3419.20	11/14/01	06:53	365.55	0.16	365.39	111.37	3053.81	930.80	3070.50
WQSP-1	CUL	3419.20	12/5/01	14:22	365.75	0.16	365.59	111.43	3053.61	930.74	3070.29
WQSP-2	CUL	3463.90	1/9/01	08:48	404.59	0.16	404.43	123.27	3059.47	932.53	3079.21
WQSP-2	CUL	3463.90	2/6/01	08:24	404.33	0.16	404.17	123.19	3059.73	932.61	3079.49
WQSP-2	CUL	3463.90	3/7/01	08:26	404.09	0.16	403.93	123.12	3059.97	932.68	3079.74
WQSP-2	CUL	3463.90	4/4/01	12:26	405.38	0.16	405.22	123.51	3058.68	932.29	3078.39
WQSP-2	CUL	3463.90	5/8/01	10:10	405.14	0.16	404.98	123.44	3058.92	932.36	3078.64
WQSP-2	CUL	3463.90	6/5/01	13:12	404.37	0.16	404.21	123.20	3059.69	932.59	3079.44
WQSP-2	CUL	3463.90	7/9/01	08:06	404.16	0.16	404.00	123.14	3059.90	932.66	3079.66
WQSP-2	CUL	3463.90	8/8/01	11:10	404.06	0.16	403.90	123.11	3060.00	932.69	3079.77
WQSP-2	CUL	3463.90	9/6/01	10:45	403.90	0.16	403.74	123.06	3060.16	932.74	3079.94
WQSP-2	CUL	3463.90	10/10/01	11:49	405.05	0.16	404.89	123.41	3059.01	932.39	3078.73
WQSP-2	CUL	3463.90	11/14/01	08:24	404.64	0.16	404.48	123.29	3059.42	932.51	3079.16
WQSP-2	CUL	3463.90	12/5/01	14:35	404.61	0.16	404.45	123.28	3059.45	932.52	3079.19
WQSP-3	CUL	3480.30	1/9/01	10:28	470.11	0.16	469.95	143.24	3010.35	917.55	3067.27
WQSP-3	CUL	3480.30	2/5/01	09:10	469.68	0.16	469.52	143.11	3010.78	917.69	3067.76
WQSP-3	CUL	3480.30	3/7/01	14:11	469.08	0.16	468.92	142.93	3011.38	917.87	3068.45
WQSP-3	CUL	3480.30	4/5/01	11:37	473.11	0.16	472.95	144.16	3007.35	916.64	3063.83
WQSP-3	CUL	3480.30	5/8/01	13:11	469.94	0.16	469.78	143.19	3010.52	917.61	3067.46
WQSP-3	CUL	3480.30	6/5/01	13:31	469.16	0.16	469.00	142.95	3011.30	917.84	3068.36
WQSP-3	CUL	3480.30	7/11/01	06:35	468.88	0.16	468.72	142.87	3011.58	917.93	3068.68
WQSP-3	CUL	3480.30	8/8/01	13:16	468.63	0.16	468.47	142.79	3011.83	918.01	3068.96
WQSP-3	CUL	3480.30	9/6/01	06:45	468.40	0.16	468.24	142.72	3012.06	918.08	3069.23
WQSP-3	CUL	3480.30	10/10/01	12:56	472.87	0.16	472.71	144.08	3007.59	916.71	3064.11
WQSP-3	CUL	3480.30	11/14/01	08:40	469.28	0.16	469.12	142.99	3011.18	917.81	3068.22
WQSP-3	CUL	3480.30	12/5/01	14:45	469.04	0.16	468.88	142.91	3011.42	917.88	3068.49
WQSP-4	CUL	3433.00	1/10/01	13:39	446.73	0.16	446.57	136.11	2986.43	910.26	3011.49
WQSP-4	CUL	3433.00	2/6/01	14:35	447.66	0.16	447.50	136.40	2985.50	909.98	3010.49
WQSP-4	CUL	3433.00	3/8/01	07:49	446.42	0.16	446.26	136.02	2986.74	910.36	3011.82

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
WQSP-4	CUL	3433.00	4/5/01	09:36	446.43	0.16	446.27	136.02	2986.73	910.36	3011.81
WQSP-4	CUL	3433.00	5/9/01	09:07	446.71	0.16	446.55	136.11	2986.45	910.27	3011.51
WQSP-4	CUL	3433.00	6/6/01	07:45	446.24	0.16	446.08	135.97	2986.92	910.41	3011.83
WQSP-4	CUL	3433.00	7/11/01	07:55	446.03	0.16	445.87	135.90	2987.13	910.48	3012.05
WQSP-4	CUL	3433.00	8/7/01	09:55	446.00	0.16	445.84	135.89	2987.16	910.49	3012.09
WQSP-4	CUL	3433.00	9/7/01	07:45	445.71	0.16	445.55	135.80	2987.45	910.57	3012.40
WQSP-4	CUL	3433.00	10/9/01	13:06	445.68	0.16	445.52	135.79	2987.48	910.58	3012.43
WQSP-4	CUL	3433.00	11/13/01	14:42	445.95	0.16	445.79	135.88	2987.21	910.50	3012.14
WQSP-4	CUL	3433.00	12/5/01	12:15	445.99	0.16	445.83	135.89	2987.17	910.49	3012.10
WQSP-5	CUL	3384.40	1/10/01	13:58	382.59	0.16	382.43	116.56	3001.97	915.00	3009.00
WQSP-5	CUL	3384.40	2/7/01	11:30	382.47	0.16	382.31	116.53	3002.09	915.04	3009.13
WQSP-5	CUL	3384.40	3/8/01	08:57	382.20	0.16	382.04	116.45	3002.36	915.12	3009.40
WQSP-5	CUL	3384.40	4/5/01	09:59	382.19	0.16	382.03	116.44	3002.37	915.12	3009.41
WQSP-5	CUL	3384.40	5/9/01	08:56	383.37	0.16	383.21	116.80	3001.19	914.76	3008.20
WQSP-5	CUL	3384.40	6/6/01	08:45	383.31	0.16	383.15	116.78	3001.25	914.78	3008.27
WQSP-5	CUL	3384.40	7/11/01	08:15	382.04	0.16	381.88	116.40	3002.52	915.17	3009.57
WQSP-5	CUL	3384.40	8/7/01	10:14	381.95	0.16	381.79	116.37	3002.61	915.20	3009.66
WQSP-5	CUL	3384.40	9/7/01	12:45	381.54	0.16	381.38	116.24	3003.02	915.32	3010.08
WQSP-5	CUL	3384.40	10/9/01	13:26	381.52	0.16	381.36	116.24	3003.04	915.33	3010.10
WQSP-5	CUL	3384.40	11/14/01	09:26	382.16	0.16	382.00	116.43	3002.40	915.13	3009.44
WQSP-5	CUL	3384.40	12/5/01	12:48	381.97	0.16	381.81	116.38	3002.59	915.19	3009.64
WQSP-6	CUL	3363.80	1/10/01	14:11	348.70	0.16	348.54	106.23	3015.26	919.05	3018.98
WQSP-6	CUL	3363.80	2/7/01	11:43	348.45	0.16	348.29	106.16	3015.51	919.13	3019.23
WQSP-6	CUL	3363.80	3/8/01	09:01	348.22	0.16	348.06	106.09	3015.74	919.20	3019.47
WQSP-6	CUL	3363.80	4/5/01	10:16	348.14	0.16	347.98	106.06	3015.82	919.22	3019.55
WQSP-6	CUL	3363.80	5/9/01	08:30	348.23	0.16	348.07	106.09	3015.73	919.19	3019.46
WQSP-6	CUL	3363.80	6/6/01	09:00	349.16	0.16	349.00	106.38	3014.80	918.91	3018.51
WQSP-6	CUL	3363.80	7/11/01	08:30	348.36	0.16	348.20	106.13	3015.60	919.15	3019.32
WQSP-6	CUL	3363.80	8/7/01	10:25	348.20	0.16	348.04	106.08	3015.76	919.20	3019.49
WQSP-6	CUL	3363.80	9/7/01	12:30	347.74	0.16	347.58	105.94	3016.22	919.34	3019.95
WQSP-6	CUL	3363.80	10/10/01	09:17	347.74	0.16	347.58	105.94	3016.22	919.34	3019.95
WQSP-6	CUL	3363.80	11/14/01	09:36	350.62	0.16	350.46	106.82	3013.34	918.47	3017.03
WQSP-6	CUL	3363.80	12/5/01	12:55	348.45	0.16	348.29	106.16	3015.51	919.13	3019.23
WQSP-6a	DL	3364.70	1/10/01	14:20	166.35	0.25	166.10	50.63	3198.60	974.93	
WQSP-6a	DL	3364.70	2/7/01	11:50	166.32	0.25	166.07	50.62	3198.63	974.94	
WQSP-6a	DL	3364.70	3/8/01	09:10	166.38	0.25	166.13	50.64	3198.57	974.92	
WQSP-6a	DL	3364.70	4/5/01	10:24	166.61	0.25	166.36	50.71	3198.34	974.85	

\* AMSL - above mean sea level

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**Table 6.9 - Groundwater Level Measurement Results for 2001**

WELL_NO	ZONE	TOC_AMSL*	DATE	TIME	TP_FT_TOC	ADJ_FT	WL_FT	WL_METERS	WL_MSL_FT	WL_MSL_M	Adj_Fr_Hd_amsl
WQSP-6a	DL	3364.70	5/9/01	08:25	166.71	0.25	166.46	50.74	3198.24	974.82	
WQSP-6a	DL	3364.70	6/4/01	06:42	166.44	0.25	166.19	50.65	3198.51	974.91	
WQSP-6a	DL	3364.70	7/11/01	08:35	166.62	0.25	166.37	50.71	3198.33	974.85	
WQSP-6a	DL	3364.70	8/7/01	10:31	166.79	0.25	166.54	50.76	3198.16	974.80	
WQSP-6a	DL	3364.70	9/7/01	12:35	166.50	0.25	166.25	50.67	3198.45	974.89	
WQSP-6a	DL	3364.70	10/10/01	09:26	166.64	0.25	166.39	50.72	3198.31	974.84	
WQSP-6a	DL	3364.70	11/12/01	05:00	166.69	0.25	166.44	50.73	3198.26	974.83	
WQSP-6a	DL	3364.70	12/5/01	13:01	166.84	0.25	166.59	50.78	3198.11	974.78	

\* AMSL - above mean sea level

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**Table 6.10 - Analytical Results for Shallow Groundwater Program**

Parameter	Units	C-2505	C-2506	C-2507	Dup.	C-2811	PZ-1
Ammonium	mg/l	0.097	0.0967	<0.0042	0.0075	<0.0042	0.0699
Arsenic	mg/l	<0.003	<0.003	0.0015	0.0017	0.0014	<0.003
Barium	mg/l	0.103	0.0914	0.0377	0.0386	0.0934	0.125
Boron	mg/l	0.17	0.12	0.27	0.25	0.17	0.079
Bromide	mg/l	9.9	9.5	5.3	5.6	2.8	19.2
Cadmium	mg/l	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.001
Calcium	mg/l	943	1250	418	431	283	4250
Chloride	mg/l	6230	9240	1300	1330	956	33100
Chromium	mg/l	0.0141	0.0099	0.0491	0.0535	0.0017	0.0108
Iron	mg/l	<0.008	<0.008	<0.0008	<0.0008	<0.0008	<0.008
Lead	mg/l	0.0048	<0.001	0.00012	<0.0001	<0.0001	<0.001
Magnesium	mg/l	646	820	337	331	207	2310
Mercury	mg/l	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0016
Nitrate	mg/l	23.2	23.2	26	25.7	27.9	4.9
Nitrite	mg/l	0.0165	<0.0082	0.0139	0.0156	0.0147	<0.0082
pH		7.28	7.2	7.61	7.42	7.56	6.94
Potassium	mg/l	11.3	14.5	6.5	6.5	4.6	32
Selenium	mg/l	0.112	0.0447	0.075	0.0698	0.0243	0.0753
Silicon	mg/l	22.7	22.3	25	25	22.3	19.4
Silver	mg/l	<0.001	<0.001	<0.0001	0.00012	<0.0001	<0.001
Sodium	mg/l	2030	3230	328	329	163	12700
Specific Gravity	mg/g	1.01	1.01	1	1	1	1.04
Sulfate	mg/l	1290	1300	940	970	379	1610
Total Dissolved Solids	mg/l	13000	18000	4170	4180	2630	62200
Total Inorganic Carbon	mg/l			75.1	75.8	49.5	
Total Organic Carbon	mg/l			3	2.9	1.4	
Total Suspended Solids	mg/l	<20	<20	<20	<20	<20	<20
Zinc	mg/l	<0.05	<0.05	0.0438	0.0386	0.0357	<0.05
Parameter	Units	PZ-2	PZ-3	PZ-4	Dup.	PZ-5	PZ-6
Ammonium	mg/l	0.129	0.101	0.112	0.123	0.0578	0.0345
Arsenic	mg/l	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Barium	mg/l	0.0588	0.0816	0.149	0.151	0.0977	0.0931
Boron	mg/l	0.13	0.16	0.15	0.15	0.1	0.11
Bromide	mg/l	7.6	7.5	12.1	7.1	23.1	16.6
Cadmium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Calcium	mg/l	997	1230	2110	2110	3070	2240
Chloride	mg/l	9160	23500	32900	34200	37500	36200
Chromium	mg/l	0.0115	0.0119	0.0134	0.0129	0.0117	0.0156
Iron	mg/l	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	0.0018	0.0048
Magnesium	mg/l	626	839	1090	1090	1760	1330
Mercury	mg/l	<0.0002	<0.0002	0.0017	0.0016	0.0014	0.00021
Nitrate	mg/l	6.79	16.3	17.2	17.1	14.4	25.2
Nitrite	mg/l	0.0169	<0.0082	0.0147	0.0145	0.0177	0.0153
pH		7.3	7.23	7.22	7.33	7.04	6.94
Potassium	mg/l	13.7	95	39.8	39.6	68.8	170
Selenium	mg/l	0.102	0.102	0.0431	0.0429	0.069	0.0607
Silicon	mg/l	20.4	18.3	20.5	20.4	18.7	20.3
Silver	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	2.4
Sodium	mg/l	3880	11800	16000	16000	16200	17700
Specific Gravity	mg/g	1.01	1.03	1.04	1.04	1.05	1.04
Sulfate	mg/l	1660	1660	1300	1290	1510	2040
Total Dissolved Solids	mg/l	18000	41800	58600	59400	65200	65700
Total Inorganic Carbon	mg/l						
Total Organic Carbon	mg/l						

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**Table 6.10 - Analytical Results for Shallow Groundwater Program**

Total Suspended Solids	mg/l	<20	<20	<20	<20	<20	<20
Zinc	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Parameter	Units	PZ-7	PZ-9	PZ-10	PZ-11	PZ-12	Dup.
Ammonium	mg/l	0.0466	0.267	<0.0042	0.142	0.124	0.154
Arsenic	mg/l	<0.003	<0.003	0.0014	<0.003	<0.003	<0.003
Barium	mg/l	0.0598	0.185	0.0479	0.246	0.116	0.115
Boron	mg/l	0.064	0.17	0.28	0.062	0.21	0.2
Bromide	mg/l	18	57.1	2.2	21.4	5.6	4.9
Cadmium	mg/l	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001
Calcium	mg/l	3340	3550	254	3980	868	867
Chloride	mg/l	38900	72400	468	56700	6530	6560
Chromium	mg/l	0.0126	0.0181	0.00083	0.0112	0.0114	0.0121
Iron	mg/l	<0.008	49.2	<0.0008	<0.008	<0.008	<0.008
Lead	mg/l	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001
Magnesium	mg/l	2010	3550	177	2950	613	608
Mercury	mg/l	0.0016	0.00079	<0.0002	0.0022	<0.0002	<0.0002
Nitrate	mg/l	20.2	14.4	18.3	28.2	29.5	30.8
Nitrite	mg/l	0.0209	<0.0082	0.0089	<0.0082	0.0083	0.0082
pH		6.75	5.99	7.45	6.62	7.28	7.19
Potassium	mg/l	61	499	4.2	62.9	24.7	24.5
Selenium	mg/l	0.0916	0.0516	0.031	0.0289	0.0378	0.0367
Silicon	mg/l	20	10.6	22.3	12.5	20.2	20.2
Silver	mg/l	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001
Sodium	mg/l	17000	36100	188	24300	2290	2290
Specific Gravity	mg/g	1.05	1.09	1.01	1.07	1.05	1.06
Sulfate	mg/l	2180	3470	730	2380	829	843
Total Dissolved Solids	mg/l	70200	134000	2320	99000	12900	12800
Total Inorganic Carbon	mg/l			93.1			
Total Organic Carbon	mg/l			2.5			
Total Suspended Solids	mg/l	<20	71	39	59	<20	<20
Zinc	mg/l	<0.05	<0.05	0.0409	<0.05	<0.05	<0.05